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This report presents intercorrelations and factor analyses of items from the principal questionnaire administered as part of the Educational Opportunities Survey (EOS). The correlations among selected items from the questionnaire were computed (1) to display their interrelationships, (2) to document them for other researchers, and (3) to serve as a basis for the factor analyses. The factor analyses were conducted to reduce the number of items so that the volume of data processing and complexity of later analyses would be reduced. All analyses were conducted for three groups of principals--elementary, secondary, and total. The analytic techniques used in all the factor analyses were the Principal Components method of factor extraction and the Varimax method of factor rotation. These techniques were used on a set of 22 and a set of 62 variables pertaining to the principal's background and the school's programs and facilities. The results showed that the variables did not readily fall into any naturally meaningful group. Related documents are ED 017 996, ED 017 997, and EA 001 682. (HW)

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NATIONAL CENTER FOR EDUCATIONAL STATISTICS
Division of Operations Analysis

CORRELATIONAL AND FACTORIAL ANALYSES OF ITEMS FROM
THE EDUCATIONAL OPPORTUNITIES SURVEY PRINCIPAL QUESTIONNAIRE

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TABLE OF CONTENTS

	Page
LIST OF TABLES	
INTRODUCTION	1
LIST OF VARIABLES	1
FACTOR ANALYSES - PROCEDURES AND RESULTS	12
Procedures	12
Results	13
SUMMARY AND CONCLUSIONS	25
LIST OF REFERENCES CITED	27
Appendix A -- Coding of Items from the Principal Questionnaire for Elementary (K-8) and Secondary (9-12) Principals	
Appendix B - Means, Standard Deviations and Intercorrelations for Total, Elementary and Secondary Principals	

LIST OF TABLES

<u>Table Number</u>	<u>Title</u>	<u>Page Number</u>
1	School Index I: Plant and Facilities	14
2	School Index II: Principal's Experience	15
3	School Index III: Principal's Training	16
4	School Index IV: College Attended	17
5	School Index V: Instructional Facilities	18
6	School Index VI: Specialized Staff and Services	19
7	School Index VII: Tracking and Ability Grouping	20
8	School Index VIII: Frequency of Testing	21
9	School Index IX: Pupil Transfers	22
10	School Index X: Remedial Programs	22
11	School Index XI: Free Milk and Lunch Programs	23
12	School Index XII: Accreditation	23
13	School Index XIII: Age of Texts	24
14	School Index XIV: Availability of Texts	24

Correlational and Factorial Analyses of Items from the Educational Opportunities Survey Principal Questionnaire

INTRODUCTION

The following report presents intercorrelations and factor analyses of items from the principal questionnaire administered as part of the Educational Opportunities Survey (EOS), (see Coleman, et.al. in the List of References.) The correlations among selected items from the principal questionnaire were computed in order to: (1) display their inter-relationships; (2) to document them for other researchers; (3) and to serve as a basis for the factor analyses. The factor analyses were conducted in order to reduce the number of items in an empirically meaningful way so that the volume of data processing and complexity of later analyses would be reduced. By empirically meaningful is meant that groups of variables (or factors) would be sought that correlated substantially with one another and very little with other variables but that were also psychologically or sociologically meaningful.

All analyses were conducted for three groups of principals labeled ELEMENTARY, SECONDARY AND TOTAL. The elementary and secondary principals were selected on the basis of their response to a question concerned with the highest grade included in their school (question 2). Thus those principals who said their school included the ninth grade or higher are included in the group of 9th to 12th grade schools which has been labeled SECONDARY. Similarly, those who said their school included the eighth grade or less are included in the group of kindergarten through 8th grade schools which has been labeled ELEMENTARY. The group of schools labeled TOTAL consists of all the principals included in the EOS sample viz all the elementary and secondary principals combined.

Analyses of the TOTAL group were conducted in order to compare their similarities and differences with the ELEMENTARY and SECONDARY groups. The grade span of schools does not follow a uniform pattern. For example there are K through 12 schools, 1 through 8, 1 through 6, 7 through 9, 7 through 8, etc. Since it was desired, insofar as possible, to maintain the same conceptual framework (grouping of variables) when working with all the schools it was decided to use the groupings obtained from the TOTAL schools group if there were sufficient similarities obtained between them and the ELEMENTARY and SECONDARY groups.

LIST OF VARIABLES

There were two forms of the principal questionnaire used in the Educational Opportunities Survey. The first form contained 100 questions. The second form was a brief summary questionnaire that was sent to all principals who failed to respond to the original questionnaire. This latter form contained approximately 92 questions some of which were different in format

from the original questionnaire. Only those questions that were common to the two forms and in the same format were used. There were approximately 84 items from these two forms that were judged to be of interest to the investigators. These items are not always the same as a question. For example, one question might have had several items. Thus question 13 had 18 sub items or questions concerned with the different kinds of facilities the school had. All of these items were used as variables in the analyses.

Many of the questions and items were judged to be best kept as single items for special studies rather than being grouped with other variables. Thus items concerned with integration and racial-ethnic group membership were left as separate items.

The list of variables used in the analyses and the manner in which they are coded are given below.

The detailed numerical codes used and the value assigned for a response when a person failed to respond to a particular question (non-response) are given in Appendix A. Results of earlier analyses of the percent of principals responding to each question and their average school size, rural-urban location, principal's salary and socio-economic status of the students were used as a guide in deciding how to code non-responses (see Mayeske, et.al., Unpublished Manuscript #61 in the List of References for these analyses and the actual questions from the questionnaire).

Due to limitations of computer capacity two sets of variables were used. The first set contained 62 variables and the second set contained 22 variables. The list of variables for each set are given below.

Set of 22 Variables

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
1	9	Acreage of Plant Site.	A high value indicates more acreage
2	10	Age of Building	A high value indicates an older building
3	11	Pupils Per Room	A high value indicates many pupils per room
4	13a	Centralized Library	A high value indicates that the school has a central library room

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
5	13c-i	Auditorium	A high value indicates that the school has one
6	13c-i	Gymnasium	A high value indicates that the school has one
7	13c-i	Cafeteria	A high value indicates that the school has one
8	13p	Athletic Field	A high value indicates that the school has one
9	13r	Hot Meal Kitchen	A high value indicates that the school has one
10	25	Infirmary or Health Room	A high value indicates that the school has one
11	56	Years as a Principal	A high value indicates many years
12	57	Years as a Principal in this School	A high value indicates many years
13	58	Age	A high value indicates older age
14	59	Sex	A high value indicates female
15	60	Highest Degree Held	A high value indicates a higher degree
16	62	Undergraduate Institution Attended	The item response categories were ranked by the magnitude of the teachers verbal score assigning a high rank to a high verbal score. Each respondent was assigned the rank for the item response he chose. A high score indicates a high rank
17	63	Highest Degree Offered by Undergraduate Institution	Same as variable 16

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
18	64	Area of Undergraduate Institution	High value indicates institution is located in another area or State
19	66	Credit Beyond Highest Degree	High value indicates many credits beyond highest degree
20	69	Principal's Estimate of School's Reputa- tion	A high value indicates that the principal feels the school has a good reputation among other educators in the area
21	70	Percent of Time Teaching	A high value indicates that the principal spends a large percentage of his time teaching
22	71	Principal's Salary	A high value indicates a high annual salary.

Set of 62 Variables

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
1	3	Free Kindergarten (Elementary)	A high value indicates that the school has one
1	53, 54	College Representa- tives (Secondary)	A high value indicates that many colleges sent representatives to talk with the high school students the previous year
2	4	Free Nursery (Elementary)	A high value indicates that the school has one
2	71	Principal's Salary (Secondary)	A high value indicates a high annual salary
3	5	State Accreditation	A high value indicates accreditation
4	6	Regional Accredita- tion	A high value indicates accreditation
5	7	Compulsory Attendance Law	A high value indicates that there is a compulsory school attendance law enforced
6	72	Rural-Urban Loca- tion	A high score indicates an inner city or large city suburb location
7	73	Principal's Estimate of Student's Socio- Economic Status	A high value indicates children of professional and white collar workers, low value indicates children of blue collar and rural families
8	74	Public Library	A high value indicates that there is a public library of at least 5,000 books within walking distance of the school
9	75	PTA Attendance	A high value indicates that a large proportion of student's parents attend PTA meetings.

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
10	76	Length of School Day	A high score indicates a longer school day (maximum is 8 hours or more)
11	77	Courses from Different Teachers	A high score indicates a higher grade at which different courses are taken from different teachers
12	13b	Volumes in Library	A high score indicates many volumes in the school library
13	80	Grouping	A high score indicates that the school practices ability grouping for all students
14	82	Percent Highest Track	A high score indicates a high percent of students in the highest track
15	83	Percent Lowest Track	A high score indicates a high percent of students in the lowest track
16	13j	Shop Tools	A high score indicates that the school has a shop with power tools
17	13k	Biology Lab	A high score indicates that the school has a biology lab
18	13l	Chemistry Lab	A high score indicates that the school has a chemistry lab
19	13m	Physics Lab	A high score indicates that the school has a physics lab
20	13n	Language Lab	A high score indicates that the school has a foreign language laboratory with sound equipment
21	13o	Typing Room	A high score indicates that the school has a room used only for typing instruction

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
22	84	Percent to Higher Track	A high value indicates that a high percent of students moved to a higher track
23	13q	Movie Projectors	A high value indicates that the school has three or more movie projectors with sound equipment
24	85	Percent to Lower Track	A high value indicates that a high percent of students moved to a lower track
25	14	Percent Free Lunch	A high value indicates a high percent of students who receive free lunch daily
26	15	Percent Free Milk	A high value indicates a high percent of students who receive free milk daily
27	16	Texts Provided	A high value indicates that students must buy their own books, low value that they are provided free
28	17	Age of Texts	A high value indicates older texts provided
29	18	Third Grade Reader (Elementary)	A high value indicates an older 3rd grade reader
29	19	Biology Text (Secondary)	A high value indicates an older biology text
30	20	Availability of Texts	A high value indicates that texts are available in sufficient numbers
31	21	Daily Attendance	A high value indicates a high percent of students in daily attendance

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner Of Coding</u>
32	22	Intelligence Testing	A high value indicates that the school gives intelligence tests in 3 or more grades
33	23	Achievement Testing	A high value indicates that the school gives standardized achievement tests at several grades
34	24	Interest Testing	A high value indicates that the school gives interest inventories at 3 or more grades
35	86	Accelerated Curriculum	A high value indicates that the school provides an accelerated curriculum in all academic subjects
36	26	Pupils Per Teacher	A high value indicates many pupils per teacher
37	27	Teacher Turnover	A high value indicates a high percent of teachers left in the previous year for reasons other than death or retirement
38	28	Teacher Tenure	A high value indicates an automatic tenure system after a fixed time period
39	29	Teacher Exams	A high value indicates teacher exams are used in the appointment process
40	30	Art Teacher	A high value indicates that the school has an art teacher 4 or more days per week
41	31	Music Teacher	A high value indicates that the school has a music teacher 4 or more days per week

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
42	32	Speech Teacher	A high value indicates that the school has a speech correction teacher 4 or more days per week
43	33	Mental Health	A high value indicates that the school has provisions for handling mental health problems
44	34	Reading Teachers	A high value indicates 4 or more full-time reading teachers
45	35	Guidance Counselors	A high value indicates 5 or more full-time guidance counselors
46	36	Librarian	A high value indicates one or more full-time librarians
47	37	Nurse	A high value indicates that the school has a full-time nurse
48	38	Attendance Officer	A high value indicates that the school has a full-time school attendance officer
49	39	Pupil Assignment	A high value indicates that all pupils in a particular geographic area attend the school with few or no transfers, low value indicates some other assignment policy
50	40	Enrollment	A high value indicates a large number of students enrolled in the school
51	42	Daily Attendance	A high value indicates a high average daily percentage of attendance
52	43	Percent White	A high value indicates a high percentage of white students in the student body

<u>Variable No. In Matrix</u>	<u>Questionnaire Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
53	44	Student Transfers In	A high value indicates a high percentage of students who transfer in from another school
54	45	Student Transfers Out	A high value indicates a high percentage of students who transfer out to another school
55	48a-g	Principals Estimate of School Problems	A high value indicates many school problems such as destruction of property, stealing, racial tension, physical violence against teachers, drinking, etc.
56	87	Non-Whites Entered	A high value indicates 5 to 10 years or more since non-whites first entered the school, low value indicates school is entirely non-white
57	89	Promotion Policy	A high value indicates that a pupil is promoted with his age group regardless of the quality of his work, low value that student must repeat failed courses or grades
58	90	Extra-Curricular Activities	A high value indicates a large number of extracurricular activities offered by the school
59	91	Homework	A high value indicates 3 or 4 hours or more of homework is expected per day from the students
60	92	Remedial Math	A high value indicates a high percent of students taking courses or special class work in remedial arithmetic or math

<u>Variable No.</u> <u>In Matrix</u>	<u>Questionnaire</u> <u>Item Number</u>	<u>Title</u>	<u>Manner of Coding</u>
61	93	Remedial Reading	A high value indicates a high percent of students taking courses or special class work in remedial reading or English
62	94	Special Classes	A high value indicates that the school provides many special classes for the mentally retarded, behavior problems, rapid learners, Non-English speaking students, physically handicapped, etc.

The codes for Elementary and Secondary schools are given in Appendix A. The means, standard deviations and intercorrelations for Elementary, Secondary and Total schools using these codes are given in Appendix B (the Elementary codes were used to code the variables for Total schools).

The correlations of these variables with selected other variables will not be discussed since they are dealt with extensively in another note along with student body and teacher variables (see Mayeske, et.al., Unpublished Manuscript 85).

FACTOR ANALYSES - PROCEDURES AND RESULTS

Procedures

The analytic techniques used in all the factor analyses were the Principal Components method of factor extraction and the Varimax method of factor rotation (see Horst in the List of References for a discussion of these techniques, especially pages 156 and 418 respectively and also Kaiser). In the terminology of matrix algebra a Principal Component is similar to an eigen vector, characteristic vector or latent vector and the amount of variance accounted for by a factor is similar to an eigen value, characteristic root or latent root. The desirable feature of the Principal Component method is that it maximizes the amount of variance taken out by each factor or in other words it takes out the roots in descending order of magnitude. The factors (or vectors) obtained from a Principal Components analysis are usually not meaningful and consequently the Varimax technique is used to rotate the factors into a position which may be more meaningful. Computationally, the Varimax technique attempts to maximize the high and low factor weights (sometimes called factor loadings or vector coefficients) so that variables that have high weights for a factor can be thought of as being related to one another and hence forming a clear grouping while those that have low (or near zero weights) belong in some other grouping. As mentioned earlier, the philosophy adhered to in using factor analysis was that meaningful groupings of variables would be sought. Initially certain variables were excluded from the factor analyses because it was felt that they were more meaningfully kept as separate variables or that they would perturb what might otherwise be a meaningful solution. Thus the variables concerned with the principal's sex (14) and credits beyond highest degree (19) were kept out of the factor analyses.

The set of 22 variables and the set of 62 variables were each subjected to a Principal Components analysis and Varimax rotation. These analyses did not yield any clear cut or meaningful groups or factors. Usually the factors contained both variables that meaningfully belonged together and variables that did not lend themselves to any clear interpretation. For example, a school size and facilities factor emerged but included a large number of unwanted policy variables such as tracking, use of teacher examinations, etc. Although these analyses did not form clear factors their results were useful in forming meaningful subsets of variables. Then these different subsets of variables were each subjected to a Principal Components analysis and the weights from the first Principal Component were used to weight the variables in order to form indices. The results of these analyses are given in the following pages.

Results

For each subset of variables the weights from the first Principal Component and the percent of variance accounted for by that component are given for ELEMENTARY, SECONDARY and TOTAL groups of schools. The percent of variance is computed by utilizing a theorem from matrix theory which states that the trace of a matrix (viz the sum of its diagonal elements) is equal to the sum of its roots. Since the diagonal elements of a correlation matrix are equal to one, the sum of its diagonal elements is equal to the number of variables in the matrix. Hence by dividing each root by the number of variables one obtains the percent of variance accounted for by the factor associated with that root. A descriptive label is also given for each factor. A variable is allowed to belong to one and only one factor. This latter rule prevents the factor scores from being unduly highly correlated because the same variable was entering into both factors. For the remainder of this report the interpreted factors will be referred to as indices.

TABLE 1.-School Index I: Plant and Facilities

VARIABLE NUMBER*	VARIABLE TITLE	WEIGHTS		
		TOTAL	ELEMENTARY	SECONDARY
1	Area of Plant	.65	.64	.49
4	Central Library	.56	.49	.50
5	Auditorium	.70	.75	.48
6	Gymnasium	.58	.51	.52
7	Cafeteria	.69	.73	.66
8	Athletic Field	.43	.40	.50
9	Kitchen	.62	.60	.56
10	Infirmery or Health Room	.46	.52	.33
Percent of Variance Accounted for by First Principal Component		35.20	35.13	26.17

*Variable numbers refer to those in the 22 variable set.

A school with a high score on this index tends to have a large plant, a central library, an auditorium, a gymnasium, a cafeteria, an athletic field, a kitchen and an infirmery or health room. In short a school with a high score on this index tends to have many of the physical attributes usually associated with large size schools. The weights are similar although the percent of variance accounted for by the first principal component for the SECONDARY analysis is somewhat less than for the ELEMENTARY and TOTAL analyses.

TABLE 2.- School Index II: Principal's Experience

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
11	Number of Years as a Principal	.90	.90	.91
12	Number of Years as a Principal in this School	.84	.84	.83
13	Years of Age	.80	.79	.83
Percent of Variance Accounted for by First Principal Component**		---	---	---

*Variable numbers refer to those in 22 variable set.

**These weights are taken from a Varimax rotation performed upon three factors extracted from variables 11, 12, 13, 15, 16, 17, 18 and 22.

This index is similar to the Experience index obtained for the teachers (see Mayeske, et.al., Technical Note No. 49). A principal with a high score on this index is older, has been a principal for many years and has been in his present school for quite a few years. The weights are highly similar for all three analyses.

TABLE 3.- School Index III: Principal's Training

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
15	Highest Degree Held	.87	.87	.84
22	Salary	.86	.86	.81
Percent of Variance Accounted for by First Principal Component**		---	---	---

*Variable number refers to those in the 22 variable set.

**These weights are taken from a Varimax rotation performed upon three factors extracted from variables 11, 12, 13, 15, 16, 17, 18 and 22.

This index has some of the variables included in the Training Index obtained for the teachers (see Technical Note No. 49 in the List of References). A principal with a high score has an advanced degree and a high salary. This index might also be regarded as a surrogate for expenditures for a school with a highly trained, well paid Principal tends also to expend larger amounts of monies on other aspects of the school (see Mayeske, et.al., Unpublished Manuscript 85). The weights are highly similar for all three analyses.

TABLE 4.- School Index IV: College Attended

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
16	Ranking of Undergraduate Institution	.80	.78	.59
17	Highest Degree Offered by Undergraduate Institution	.82	.81	.73
18	Location of Undergraduate Institution	.20	.25	.54
Percent of Variance Accounted for by First Principal Component**		---	---	---

*Variable numbers refer to those in the 22 variable list.

**These weights are taken from a Varimax rotation performed upon three factors extracted from variables 11, 12, 13, 15, 16, 17, 18 and 22.

This index has some of the same variables included in the index entitled College Attended that was obtained for the teachers (see Mayeske, et. al., Technical Note No. 49 in the List of References). A principal with a high score attended a highly ranked undergraduate institution, that undergraduate institution offered an advanced degree and was located in another area or state. The weights tend to be similar although the SECONDARY weights tend to differ somewhat from the others.

TABLE 5.- School Index V: Instructional Facilities

VARIABLE NUMBER*	VARIABLE TITLE	WEIGHTS		
		TOTAL	ELEMENTARY	SECONDARY
12	Number of volumes in the Library	.59	.26	.55
16	Shop	.84	.44	.52
17	Biology Labs	.87	.78	.71
18	Chemistry Labs	.87	.79	.71
19	Physics Labs	.86	.78	.73
20	Foreign Language Labs	.64	.39	.47
21	Typing Rooms	.84	.41	.60
23	Movie Projector	.57	.30	.47
58	Extra-Curricular Activities	.86	.51	.75
Percent of Variance Accounted for by First Principal Component		61.26	30.76	38.81

*The variable numbers refer to those in the 62 variable set.

A school with a high score on this index has many volumes in their library, a shop, biology, chemistry, physics and foreign language labs, a typing room, movie projectors available and offers a number of extra-curricular activities. Many of these attributes are those that are usually associated with large size or affluent schools. The principal component for TOTAL schools accounts for a much higher percent of the variance than for ELEMENTARY or SECONDARY schools. Evidently the differences between ELEMENTARY and SECONDARY schools make a contribution to the TOTAL analysis. These differences, to the extent that they are reflected as differences in the principal component weights, appear to be in the size of libraries; presence of a shop or shop facilities, language lab and typing room; availability of movie projectors and the number of extra-curricular activities offered. Indeed we would expect differences between ELEMENTARY and SECONDARY schools on many of these variables. Although the absolute values are different, the relative weights for the three groups are more similar. Thus, variables that have high weights for the TOTAL group tend to have high weights for the ELEMENTARY and SECONDARY groups.

TABLE 6.-School Index VI: Specialized Staff and Services

VARIABLE NUMBER*	VARIABLE TITLE	WEIGHTS		
		TOTAL	ELEMENTARY	SECONDARY
1	Free Kindergarten	.45	.61	None
40	Art Teacher	.75	.61	.80
41	Music Teacher	.62	.55	.57
42	Speech Teacher	.51	.68	.60
43	Mental Health Provisions	.57	.62	.69
44	Remedial Reading Teacher	.43	.32	.47
45	Number of Guidance Counselors	.66	.32	.81
46	Librarian	.66	.53	.65
47	Nurse	.67	.69	.73
48	Attendance Officer	.21	.17	.36
62	Special Classes	.65	.63	.77
Percent of Variance Accounted for by First Principal Component		61.26	38.81	30.76

*The variable number refers to those in the 62 variable set.

A school with a high score on this index tends to have many of the specialized services that a large budget would support. Some of these specialized services are: Free Kindergarten; Art, Music, Speech and Remedial Reading teachers; a Nurse and Provisions for children with emotional or psychiatric problems; many Guidance Counselors; a Librarian; an Attendance Officer and the school offers special classes such as a special class for the mentally retarded, physically handicapped, speech impairments, etc. These kinds of services are usually found in large schools.

The percent of variance accounted for by the first principal component is much greater for the TOTAL group than for either the ELEMENTARY or SECONDARY. The percent of variance is lowest of all for the SECONDARY group but this is due in part to there being one less variable (namely free kindergarten). Evidently as was the case with some of the earlier indices, the differences between the ELEMENTARY and SECONDARY groups make a contribution to the TOTAL analysis. These differences, to the extent that they are reflected as differences in the principal component weights, appear to be due mainly to the Number of Guidance Counselors, and the availability of an Attendance Officer. Here as with earlier indices, although the absolute values are different, the relative weights for the three groups are more similar. Thus, variables that have high weights for the TOTAL group tend also to have high weights for the ELEMENTARY and SECONDARY groups.

TABLE 7.- School Index VII: Tracking and Ability Grouping

VARIABLE NUMBER*	VARIABLE TITLE	TOTAL	WEIGHTS	
			ELEMENTARY	SECONDARY
13	Ability Grouping or Tracking	.82	.81	.81
14	Proportion of Students in Highest Track	.82	.84	.75
15	Proportion of Students in Lowest Track	.81	.83	.69
22	Proportion of Students Moved to Higher Track	.63	.64	.64
24	Proportion of Students Moved to Lower Track	.69	.69	.67
35	Accelerated Curriculum	.33	.28	.38
Percent of Variance Accounted for by First Principal Component		49.52	50.45	44.88

*The variable numbers refer to those in the 62 variable set.

A school with a high score on this index practices grouping and tracking extensively, it has a high proportion of its students in the different tracks, a high proportion of movement between tracks and an accelerated curriculum.

The percent of variance accounted for by the first principal component is slightly greater for the TOTAL and ELEMENTARY than for the SECONDARY groups. However, the weights for all three groups are highly similar.

TABLE 8.- School Index VIII: Frequency of Testing

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
32	Frequency of Intelligence Testing	.78	.70	.84
33	Frequency of Achievement Testing	.76	.68	.83
34	Frequency of Interest Testing	.47	.58	.57
Percent of Variance Accounted for by First Principal Component		46.83	43.04	57.11

*The variable numbers refer to those in the 62 variable set.

A school with a high score on this index administers intelligence, achievement and interest tests frequently. The percent of variance accounted for by the first principal component is somewhat greater for the SECONDARY than for the other two groups. This indicates that the tendency is more pronounced in SECONDARY schools for a school that practices one kind of testing to also practice other kinds of testing. Although the absolute values of the weights are slightly greater for the SECONDARY group the relative order remains much the same.

TABLE 9.- School Index IX: Pupil Transfers

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
53	Percent of Pupil Transfers In	.90	.90	.87
54	Percent of Pupil Transfers Out	.90	.90	.87
	Percent of Variance Accounted for by First Principal Component	81.32	81.97	76.41

A school with a high score on this index experiences much student turnover, both influx and outflow. This trend is slightly less pronounced for the SECONDARY group than for the other group as indicated by the slightly lower weights and lower percent of variance accounted for by the first principal component.

TABLE 10.- School Index X: Remedial Programs

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
60	Percent of Students in Remedial Math	.91	.92	.90
61	Percent of Students in Remedial Reading	.91	.92	.90
	Percent of Variance Accounted for by First Principal Component	83.43	83.70	81.83

*The variable numbers refer to those in the 62 variable set.

A school with a high score on this index has a large percent of it's students in remedial reading and math programs. The weights and percent of variance accounted for by the first principal component are very similar for each group.

TABLE 11.- School Index XI: Free Milk and Lunch Programs

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
25	Percent of Students Who Get Free Lunch	.87	.86	.89
26	Percent of Students Who Get Free Milk	.87	.86	.89
Percent of Variance Accounted for by First Principal Component		75.75	74.59	79.94

A school with a high score on this index has a large percent of it's students who participate in the free milk and lunch programs. The weights and percents of variance accounted for by the first principal component are similar for the different groups.

TABLE 12.- School Index XII: Accreditation

VARIABLE NUMBER*	VARIABLE TITLE	<u>WEIGHTS</u>		
		TOTAL	ELEMENTARY	SECONDARY
3	State Accreditation	.86	.88	.79
4	Regional Accreditation	.86	.88	.79
Percent of Variance Accounted for by First Principal Component		73.15	77.76	62.09

*The variable numbers refer to those in the 62 variable set.

A school with a high score on this index has both regional and state accreditation. The differences in the weights and the percent of variance accounted for by the first principal component indicate that there is a more pronounced trend for ELEMENTARY than for SECONDARY schools to have either both kinds of accreditation or neither kind of accreditation, for the magnitude of the percent of variance accounted for by the first principal component is directly related to the degree of intercorrelation that exists among a set of variables. When this percent is high the variables tend to be highly intercorrelated and when low the variables tend to be less correlated. A high correlation would exist between the two types of accreditation when a school that has one type of accreditation tends also to have the other kind and when a school that does not have one kind of accreditation tends also not to have the other kind.

TABLE 13.- School Index XIII: Age of Texts

VARIABLE NUMBER	VARIABLE TITLE	TOTAL	WEIGHTS	
			ELEMENTARY	SECONDARY
28	Age of Texts	.77	.77	.77
29	Date of Reading Books (Elementary) or Date of Biology Text (Secondary)	.77	.77	.77
Percent of Variance Accounted for by First Principal Component		58.77	58.77	58.77

A school with a high score on this index tends to have older text books. All sets of weights and variance percentages are the same.

TABLE 14.- School Index XIV: Availability of Texts

VARIABLE NUMBER*	VARIABLE TITLE	TOTAL	WEIGHTS	
			ELEMENTARY	SECONDARY
27	Texts Provided	.74	.73	.73
30	Sufficient Texts Available	.74	.73	.73
Percent of Variance Accounted for by First Principal Component		54.76	52.81	52.81

*The variable numbers refer to those in the 62 variable set.

A school with a high score on this index has the students buy their own texts and there are usually a sufficient number available. A school with a low score tends to provide books for it's students and there is not a sufficient number of them available. The weights and the percent of variance accounted for are highly similar for each group.

Variables that did not meaningfully belong in any of the indices have been carried along so as to be available to be used as special variables in later analyses.

In view of the similarity of the ELEMENTARY and SECONDARY weights with the TOTAL weights and in view of the desirability of maintaining the same conceptual framework for all of the different grade levels it is recommended that the TOTAL weights be used in future analyses to develop school indices.

The correlations of these indices with school Achievement and other student and teacher variables is given in another note (see Mayeske, et.al., Unpublished Manuscript 85 in the List of References).

SUMMARY AND CONCLUSIONS

This study attempted to reduce the number of items from the Educational Opportunities Survey Principals Questionnaire in an empirically meaningful way, so that the volume and complexity of later analyses could be reduced (this questionnaire contains information on both the principals background and the school's programs and facilities.) In order to accomplish this objective 84 variables from the principal questionnaire were first inter-correlated and then factor analyzed. Separate analyses were run for ELEMENTARY and SECONDARY principals. Since schools do not follow any one pattern for the different grade levels (eg. K-6, K-8, K-12, 7-9, etc.) a separate analysis was also run for TOTAL schools. It was hoped that the same factors could be obtained for the three different analyses so that the same conceptual framework could be used for the different grade levels.

Principal Components analyses of the intercorrelations and Varimax rotations of the factors showed that the variables did not readily fall into any naturally meaningful group. For example, some of the variables that formed factors were meaningful but these same factors often contained other variables that were difficult to interpret. Consequently, a priori groupings of subsets of the variables were subjected to a Principal Components analysis and the weights from the first Principal Component were used to weight the variables to form indices.

The indices and weights were compared for the three groups of ELEMENTARY, SECONDARY and TOTAL principals. The ELEMENTARY and SECONDARY weights were found to be similar enough to the TOTAL weights so that the TOTAL weights can be used in forming indices for the different grade levels.

The indices and their interpretive titles are:

- I Physical Plant and Facilities
- II Principal's Experience
- III Principal's Training
- IV Principal's College Attended
- V Instructional Facilities
- VI Specialized Staff and Services
- VII Tracking and Ability Grouping
- VIII Frequency of Testing
- IX Pupil Transfers
- X Remedial Programs
- XI Free Milk and Lunch Programs
- XII Accreditation
- XIII Age of Texts
- XIV Availability of Texts

The relationships of these indices to student and teacher variables are given in an earlier report in this series.

LIST OF REFERENCES CITED

- Coleman, James S., et.al., Equality of Educational Opportunity. National Center for Educational Statistics, U.S. Government Printing Office, Washington: 1966, Catalog No. FS5.38001 and Supplement.
- Horst, Paul, Factor Analysis of Data Matrices. Holt, Rinehart and Winston, Inc: 1965.
- Kaiser, Henry F. "The Varimax Criterion for Analytic Rotation in Factor Analysis" Psychometrika, 23, 187 - 200 (1958).
- Mayeske, G. W., Weinfeld, F. C. and Beaton, A. E. Jr., Correlational and Factorial Analyses of Items From the Educational Opportunities Survey Teacher Questionnaire. Technical Note Number 32, Division of Operations Analysis, National Center for Educational Statistics, U.S. Office of Education, October, 1967.
- Mayeske, G. W., Tabler, K. A., Weinfeld, F.D., Beaton, A.E. Jr., and Proshek, J. M., Correlational and Regression Analyses of Differences Between the Achievement Levels of Ninth Grade Schools From the Educational Opportunities Survey. Unpublished Manuscript 85, Division of Operations Analysis, National Center for Educational Statistics, U.S. Office of Education, February, 1968.

APPENDIX A

Coding of Items from the Principal Questionnaire for Elementary
(K-8) and Secondary (9-12) Principals*

*The analyses using TOTAL principals (or schools) used the codes for
ELEMENTARY Principals.

Set of 22 Variables

29

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
1	9	A	0.5	0.5
		B	1	1
		C	2	2
		D	3	3
		E	4	4
		F	5	5
		G	6	6
		H	7	7
		I	8	8
		J	9	9
		NR*	7	9
2	10	A	0.5	0.5
		B	2.5	2.5
		C	7.0	7.0
		D	14.5	14.5
		E	24.5	24.5
		F	34.5	34.5
		G	44.5	44.5
		NR*	44.5	0.5
3	11	Use gridded value and divide the responses to question 40 by this to obtain pupils per room.		
		NR	8	25
4	13a	A	1	1
		B	0	0
		NR	0	0

*NR indicates Non-Response.¹

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
5	13c,f,g or i	Score 1 if c,f,g or i have a YES response, 0 otherwise.		
6	13e,f,h or i	Score 1 if e,f,h or i have a YES response, 0 otherwise.		
7	13d,g,h or i	Score 1 if d,g,h or i have a YES response, 0 otherwise.		
8	13p	A	1	1
		B	0	0
		C	0	0
		D	0	0
		NR	0	0
9	13r	A	1	1
		B	0	0
		C	0	0
		NR	0	0
10	25	A	1	1
		B	0	0
		NR	0	0
11	56	A	0.0	0.0
		B	1.5	1.5
		C	3.5	3.5
		D	7.0	7.0
		E	12.0	12.0
		F	17.0	17.0
		G	24.5	24.5
		H	34.5	34.5
		NR	1.5	0.0

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
12	57	A	0.0	0.0
		B	1.5	1.5
		C	3.5	3.5
		D	7.0	7.0
		E	12.0	12.0
		F	17.0	17.0
		G	24.5	24.5
		H	34.5	34.5
		NR	0.0	1.5
13	58	A	24	24
		B	30	30
		C	40	40
		D	50	50
		E	60	60
		F	68	68
		NR	0	0
14	59	A	0	0
		B	1	1
		NR	OMIT	OMIT
15	60	A	1	1
		B	2	2
		C	3	3
		D	4	4
		E	5	5
		F	6	6
		NR	3	2

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
16	62	A	2	2
		B	7	6
		C	5	5
		D	4	4
		E	6	7
		F	1	3
		G	3	1
		NR	0	0
17	63	A	2	1
		B	1	2
		C	3	3
		D	2	3
		E	4	4
		NR	1	1
18	64	A	1	1
		B	2	2
		C	3	3
		D	0	0
		E	0	0
		F	0	0
		G	0	0
		NR	0	0
19	66	A	0	0
		B	5	5
		C	15	15
		D	25	25
		E	35	35
		NR	0	0

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
20	69	A	4	4
		B	3	3
		C	2	2
		D	1	1
		E	0	0
		F	1	3
		NR	1	2
21	70	A	0	0
		B	12	12
		C	37	37
		D	62	62
		E	87	87
		NR	25	25
22	71	A	3.5	3.5
		B	4.5	4.5
		C	5.5	5.5
		D	6.5	6.5
		E	7.5	7.5
		F	8.5	8.5
		G	9.5	9.5
		H	12.5	12.5
		I	17.5	17.5
		J	22.5	22.5
		NR	6.0	6.5

Set of 62 Variables

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
1	3 (Elementary Only)	A	5	Not Applicable
		B	1	
		C	3	
		D	2	
		E	4	
		NR	5	
<hr/>				
1	53, 54	If the response to questionnaire Item 43 is 45 or less enter the score from Item 53. If the response is 50 or more on Item 43, enter the score from Item 54. Score the alternatives for Items 53 and 54 as follows:		
		A		00
		B		01
		C		04
		D		07
		E		15
		F		30
		Score NR for 53		00
		Score NR for 54		07
<hr/>				
2	4 (Elementary Only)	A	5	Not Applicable
		B	3	
		C	1	
		D	2	
		E	4	
		NR	3	

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVES	ELEMENTARY CODE	SECONDARY CODE
2	71	A	Not Applicable	3.5
	(Secondary Only)	B		4.5
		C		5.5
		D		6.5
		E		7.5
		F		8.5
		G		9.5
		H		12.5
		I		17.5
		J		22.5
	NR		6.5	
3	5	A	1	1
		B	1	1
		C	1	1
		D	0	0
		E	OMIT	OMIT
		NR	1	1
4	6	A	1	1
		B	1	1
		C	1	1
		D	0	0
		E	OMIT	OMIT
		NR	1	1
5	7	A	1	1
		B	2	2
		C	3	3
		NR	2	2

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
6	72	A	1	1
		B	4	4
		C	5	5
		D	2	2
		E	3	3
		F	6	6
		G	7	7
		NR	1	4
7	73	A	6	6
		B	5	5
		C	4	4
		D	3	3
		E	2	2
		F	1	1
		NR	2	1
8	74	A	1	1
		B	0	0
		NR	0	0
9	75	A	.00	.00
		B	.05	.05
		C	.25	.25
		D	.50	.50
		E	.75	.75
		F	.95	.95
		NR	.50	.50

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
10	76	A	3.5	3.5
		B	4.5	4.5
		C	5.0	5.0
		D	5.5	5.5
		E	6.0	6.0
		F	6.5	6.5
		G	7.0	7.0
		H	7.5	7.5
		I	8.5	8.5
		NR	4.5	4.5
11	77	A	6	6
		B	7	7
		C	8	8
		D	9	9
		E	10	10
		F	11	11
		G	12	12
		H	0	0
		NR	8	10
12	13b	A	124	124
		B	374	374
		C	674	674
		D	874	874
		E	1249	1249
		F	1999	1999
		G	3749	3749
		H	6249	6249
		I	8749	8749
		J	11249	11249
		NR	1999	1999

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
13	80	A	3	3
		B	2	2
		C	1	1
		D	0	0
		NR	0	0
14	82	A	00	00
		B	05	05
		C	15	15
		D	25	25
		E	35	35
		F	45	45
		G	55	55
		H	65	65
		I	75	75
		J	85	85
		NR	00	00
15	83	A	00	00
		B	05	05
		C	15	15
		D	25	25
		E	35	35
		F	45	45
		G	55	55
		H	65	65
		I	75	75
		J	85	85
		NR	00	00
16	13j	A	1	1
		B	0	0
		NR	0	0

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
17	13k	A	1	1
		B	0	0
		C	0	0
		NR	0	0
18	13l	A	1	1
		B	0	0
		C	0	0
		NR	0	0
19	13m	A	1	1
		B	0	0
		C	0	0
		NR	0	0
20	13n	A	1	1
		B	1	1
		C	0	0
		D	0	0
		NR	0	0
21	13o	A	1	1
		B	0	0
		C	0	0
		NR	0	0
22	84	A	0.0	0.0
		B	0.0	0.0
		C	2.5	2.5
		D	7.0	7.0
		E	12.0	12.0
		F	17.0	17.0

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
22	84	G	30.0	30.0
		H	50.0	50.0
		I	65.0	65.0
		NR	0.0	0.0
23	13q	A	0	0
		B	1	1
		C	2	2
		D	4	4
		NR	1.5	1.5
24	85	A	0.0	0.0
		B	0.0	0.0
		C	2.5	2.5
		D	7.0	7.0
		E	12.0	12.0
		F	17.0	17.0
		G	30.0	30.0
		H	50.0	50.0
		I	65.0	65.0
		NR	0.0	0.0
25	14	A	00	00
		B	05	05
		C	15	15
		D	25	25
		E	35	35
		F	45	45
		G	55	55
		H	65	65
		I	75	75
		J	85	85
		K	95	95
		L	100	100
		NR	05	75

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
26	15	A	00	00
		B	05	05
		C	15	15
		D	25	25
		E	35	35
		F	45	45
		G	55	55
		H	65	65
		I	75	75
		J	85	85
		K	95	95
		L	100	100
		NR	05	05
27	16	A	1	1
		B	5	5
		C	2	2
		D	6	6
		E	3	3
		F	4	4
		NR	4	1
28	17	A	OMIT	OMIT
		B	2.5	2.5
		C	6.0	6.0
		D	10.5	10.5
		E	14.5	14.5
		F	16.5	16.5
		NR	16.5	2.5

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
29	18 (Elementary Only)	A	OMIT	Not Applicable
		B	2	
		C	3	
		D	4	
		E	5	
		F	6	
		G	7	
		NR	3	
29	19 (Secondary Only)	A	Not Applicable	OMIT
		B		2
		C		3
		D		4
		E		5
		F		6
		G		7
		NR		4
30	20	A	1	1
		B	0	0
		NR	0	0
31	21	A	00	00
		B	05	05
		C	15	15
		D	25	25
		E	35	35
		F	45	45
		G	55	55
		H	65	65
		I	75	75
		J	85	85
		K	95	95

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
31	21	L	100	100
		NR	00	00
32	22	A	1	1
		B	2	2
		C	3	3
		D	4	4
		E	0	0
		NR	0	0
33	23	A	1	1
		B	2	2
		C	3	3
		D	4	4
		E	5	5
		F	6	6
		G	7	7
		H	8	8
		I	9	9
		J	0	0
34	24	NR	0	1
		A	1	1
		B	2	2
		C	3	3
		D	4	4
		E	0	0
		NR	0	3

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
35	86	A	3	3
		B	2	2
		C	1	1
		D	0	0
		NR	0	0
<hr/>				
36	26	Use grid value and divide the response to Item 40 by this to obtain pupil teacher ratio.		
		NR	08	26
<hr/>				
37	27	A	02	02
		B	07	07
		C	12	12
		D	17	17
		E	24	24
		F	39	39
		G	54	54
	NR	54	24	
<hr/>				
38	28	A	0	0
		B	1	1
		C	2	2
		NR	0	0
<hr/>				
39	29	A	2	2
		B	1	1
		C	0	0
		NR	0	0
<hr/>				

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
40	30	A	0	0
		B	1	1
		C	2	2
		D	3	3
		E	4	4
		NR	0	0
41	31	A	0	0
		B	1	1
		C	2	2
		D	3	3
		E	4	4
		NR	0	4
42	32	A	0	0
		B	1	1
		C	2	2
		D	3	3
		E	4	4
		NR	0	1
43	33	A	4	4
		B	3	3
		C	2	2
		D	1	1
		E	0	0
		NR	0	0
44	34	A	0.0	0.0
		B	0.5	0.5
		C	1.0	1.0
		D	1.5	1.5

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
44	34	E	2.0	2.0
		F	3.0	3.0
		G	4.0	4.0
		NR	0.7	0.7
45	35	A	0.0	0.0
		B	0.5	0.5
		C	1.0	1.0
		D	1.5	1.5
		E	2.0	2.0
		F	3.0	3.0
		G	4.0	4.0
		H	5.0	5.0
		I	6.0	6.0
		J	7.5	7.5
		NR	0.0	2.0
46	36	A	0.00	0.00
		B	0.25	0.25
		C	0.50	0.50
		D	1.00	1.00
		E	2.50	2.50
		NR	0.75	1.00
47	37	A	0.00	0.00
		B	0.25	0.25
		C	0.50	0.50
		D	1.00	1.00
		NR	0.37	0.50

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
48	38	A	0.00	0.00
		B	0.25	0.25
		C	0.50	0.50
		D	1.00	1.00
		NR	0.00	0.00
49	39	A	1	1
		B	0	0
		C	0	0
		D	0	0
		E	0	0
		NR	0	0
50	40	Use grid value		
		NR	417	789
51	42	A	99	99
		B	97	97
		C	95	95
		D	93	93
		E	91	91
		F	88	88
		G	83	83
		NR	96	98
52	43	A	00	00
		B	05	05
		C	15	15
		D	25	25
		E	35	35
		F	45	45
		G	55	55

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
52	43	H	67	67
		I	75	75
		J	85	85
		K	95	95
		L	100	100
		NR	55	100
53	44	A	02	02
		B	07	07
		C	12	12
		D	17	17
		E	22	22
		F	27	27
		NR	09	02
54	45	A	02	02
		B	07	07
		C	12	12
		D	17	17
		E	22	22
		F	27	27
		NR	05	02
55	48a-g	From 43 a through g form a single variable by scoring each item alternative as follows and then sum these.		
		A	3	3
		B	2	2
		C	1	1
		D	0	0
		NR	0	0

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
56	87	A	0.5	0.5
		B	1.5	1.5
		C	4.0	4.0
		D	7.5	7.5
		E	11.0	11.0
		F	0	0
		G	0	0
		NR	0	0
57	89	A	0	0
		B	0	0
		C	0	0
		D	1	1
		NR	0	0
58	90a-s	For 90 a thru s score a YES response as 1 and a NO or NR as 0 and sum these values for a through s to form a single variable.		
59	91	A	0.0	0.0
		B	0.5	0.5
		C	1.5	1.5
		D	2.5	2.5
		E	3.5	3.5
		F	5.5	5.5
		NR	0.0	0.3
60	92	A	02	02
		B	07	07
		C	12	12
		D	17	17
		E	22	22

VARIABLE NUMBER	QUESTIONNAIRE ITEM NUMBER	ITEM ALTERNATIVE	ELEMENTARY CODE	SECONDARY CODE
60	92	F	27	27
		G	00	00
		NR	00	00
61	93	A	02	02
		B	07	07
		C	12	12
		D	17	17
		E	22	22
		F	27	27
		G	00	00
		NR	00	00
62	94a-g	Score a YES response as 1 and a NO or NR as 0 and sum these values for a through g to form a single variable.		

APPENDIX B

Means, Standard Deviations and Intercorrelations for Total, Elementary and Secondary Principals.

Total Principals

22 Variable Set

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS		81507.	
VARIABLE	SUMS	SUMS OF SQUARES	MEAN
1	456573.3555	3394706.7500	5.6016
2	1736679.5938	56278182.0000	21.3371
3	2138023.4688	71757755.0000	26.2311
4	56272.7515	56272.7529	0.6904
5	65698.2061	71948.8154	0.8960
6	56192.2803	61627.5962	0.6894
7	60142.9712	63736.0322	0.7379
8	55859.8555	55859.8579	0.6853
9	62210.3008	62210.3037	0.7632
10	50993.3276	50993.3291	0.6256
11	926532.5156	17272856.5000	11.3675
12	517673.3477	6865332.2500	6.3513
13	3726199.1563	0.17881016E 09	45.7162
14	16683.6741	16683.6765	0.2047
15	312159.1992	1241591.7031	3.8298
16	474896.7500	2878710.5938	5.8264
17	196761.4707	600269.0781	2.4140
18	170496.3965	385933.7500	2.0918
19	1236921.6406	32018773.5000	15.1756
20	245684.4258	815562.2109	3.0143
21	1579865.0469	0.11668729E 09	19.3831
22	769133.9063	8036799.4375	9.4364
			SIGMA(N)
			3.2048
			15.3778
			13.8678
			0.4623
			0.4827
			0.5299
			0.4873
			0.4644
			0.4251
			0.4840
			9.0939
			6.6250
			10.1895
			0.4035
			0.7518
			1.1709
			1.2398
			0.5995
			12.7490
			0.9593
			32.4948
			3.0914
			SIGMA(N-1)
			3.2048
			15.3779
			13.8679
			0.4623
			0.4827
			0.5299
			0.4873
			0.4644
			0.4251
			0.4840
			9.0939
			6.6251
			10.1896
			0.4035
			0.7518
			1.1709
			1.2398
			0.5995
			12.7490
			0.9593
			32.4950
			3.0914

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
1	1.000000						
2	-0.445174	1.000000					
3	0.007007	-0.072287	1.000000				
4	0.337354	-0.140156	0.023747	1.000000			
5	0.255740	-0.168806	0.003197	0.275814	1.000000		
6	0.217321	-0.059765	0.040299	0.262454	0.462831	1.000000	
7	0.288739	-0.167052	0.023766	0.262454	0.462831	0.247594	1.000000
8	0.396735	-0.173503	-0.078563	0.192027	0.468695	0.247594	0.139439
9	0.305390	-0.156874	0.017922	0.161547	0.135842	0.159204	0.139439
10	0.260208	-0.229043	0.079667	0.171569	0.305746	0.177383	0.580305
11	0.054316	-0.029083	0.048928	0.298425	0.255600	0.181186	0.150855
12	-0.045679	0.084019	0.029844	0.048767	0.046312	0.007551	0.065029
13	-0.071913	0.055915	0.011411	-0.013688	-0.010128	-0.008739	0.007006
14	-0.287715	0.159145	-0.035457	0.005295	-0.020522	-0.063469	-0.006390
15	0.231594	-0.130154	0.087152	-0.217546	-0.220807	-0.229447	-0.182140
16	0.055876	-0.034234	0.023615	0.314873	0.220810	0.226214	0.141815
17	0.055758	-0.055657	0.000862	0.054346	0.038238	0.056415	0.035472
18	0.102803	-0.074707	-0.042178	0.034675	0.036057	0.029336	0.001718
19	0.080167	-0.034866	0.070660	0.038044	-0.036433	-0.042303	-0.050468
20	0.143201	-0.142179	-0.002301	0.125732	0.052790	0.019986	0.046758
21	-0.281390	0.152126	-0.115425	0.127581	0.136965	0.126247	0.135163
22	0.206910	-0.107959	0.104896	-0.397344	-0.265199	-0.268047	-0.148070
				0.362202	0.183656	0.289163	0.050490

	8	9	10	11	12	13	14
1	0.396735	0.305390	0.260208	0.054316	-0.045679	-0.071913	-0.287715
2	-0.173503	-0.156874	-0.229043	-0.029083	0.084019	0.055914	0.159145
3	-0.078563	0.017922	0.079667	0.048928	0.029844	0.011411	-0.035457
4	0.161547	0.171569	0.298425	0.048767	-0.013688	0.005295	-0.217546
5	0.135842	0.305746	0.255600	0.046312	-0.010128	-0.020522	-0.220807
6	0.159204	0.177383	0.181186	0.007551	-0.008739	-0.063469	-0.229447
7	0.139439	0.580305	0.150855	0.065029	0.007006	-0.006390	-0.182140
8	1.000000	0.152959	0.131951	0.001161	-0.015567	-0.064886	-0.093976
9	0.152959	1.000000	0.101329	0.095831	0.039007	0.038795	-0.191592
10	0.131951	0.101329	1.000000	-0.004862	-0.068754	-0.024325	-0.180532
11	0.001161	0.095831	-0.004862	1.000000	0.666121	0.465218	-0.029620
12	-0.015567	0.039007	-0.068754	0.666121	1.000000	0.110572	0.110572
13	-0.064886	0.038795	-0.024325	0.619644	0.465218	1.000000	0.269087
14	-0.093976	-0.191592	-0.180532	-0.029620	0.110572	0.269087	1.000000
15	0.040557	0.114468	0.298042	0.058418	-0.074688	0.006546	-0.310398
16	0.051779	0.045958	0.064186	0.003553	-0.029778	-0.035458	-0.083724
17	0.045826	0.009095	0.060575	-0.044258	-0.083300	-0.056803	-0.060845
18	0.062536	0.007932	0.005317	-0.015187	-0.057159	-0.049465	-0.062123
19	0.045914	0.062923	0.125101	0.066190	0.019777	0.098124	-0.110770
20	0.068391	0.110449	0.141402	0.127030	0.111666	0.129784	-0.005330
21	-0.032030	-0.127323	-0.394432	-0.099332	0.012008	-0.023505	0.300670
22	0.079576	-0.010085	0.418287	0.112812	0.017468	0.085691	-0.211736

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
1	0.231594	0.055876	0.055758	0.102803	0.080167	0.143201	-0.281390
2	-0.130154	-0.034234	-0.055657	-0.074707	-0.034866	-0.142179	0.152126
3	0.087152	0.023615	0.000862	-0.042178	0.070660	-0.002301	-0.115425
4	0.314873	0.054346	0.034675	0.038044	0.125732	0.127581	-0.397344
5	0.220810	0.038238	0.036057	-0.036433	0.052790	0.136965	-0.265199
6	0.226214	0.056415	0.029336	-0.042303	0.019986	0.126247	-0.268047
7	0.141815	0.035472	0.001718	-0.050468	0.046758	0.135163	-0.148070
8	0.040557	0.051779	0.045826	0.062536	0.045914	0.068391	-0.032030
9	0.114468	0.045958	0.009095	0.007932	0.062923	0.110449	-0.127323
10	0.298042	0.064186	0.060575	0.005317	0.125101	0.141402	-0.394432
11	0.058418	0.003553	-0.044258	-0.015187	0.066190	0.127030	-0.099332
12	-0.074688	-0.029778	-0.083300	-0.057159	0.019777	0.111666	0.012008
13	0.006546	-0.035457	-0.056803	-0.049464	0.098124	0.129784	-0.023505
14	-0.310398	-0.083724	-0.060845	-0.062123	-0.110770	-0.005330	0.300670
15	1.000000	0.117641	0.082289	0.016492	0.048075	0.122527	-0.498103
16	0.117641	1.000000	0.344478	0.018323	0.068060	0.016408	-0.099887
17	0.082289	0.344478	1.000000	0.062982	0.020080	0.019700	-0.032623
18	0.016992	0.018323	0.062982	1.000000	0.023993	-0.009583	-0.017778
19	0.016992	0.018323	0.062982	0.023993	1.000000	0.078239	-0.141813
20	0.048075	0.068060	0.020080	0.023993	0.078239	1.000000	-0.166204
21	0.122527	0.016408	0.019700	-0.009583	-0.017778	-0.166204	1.000000
22	-0.498103	-0.059827	-0.032623	0.001372	0.268643	0.175312	-0.532434
	0.498386	0.108856	0.104049				

22

1	0.206910
2	-0.107959
3	0.104896
4	0.362202
5	0.183656
6	0.289163
7	0.050490
8	0.079576
9	-0.010085
10	0.418287
11	0.112812
12	0.017468
13	0.085692
14	-0.211736
15	0.498386
16	0.108856
17	0.104049
18	0.001372
19	0.268643
20	0.175312
21	-0.532434
22	1.000000

Total Principals

62 Variable Set

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 81507.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
1	224954.3652	931465.0938	2.7599	1.9521	1.9521
2	247542.0449	759236.9922	3.0371	0.3021	0.3021
3	71446.3711	71446.4033	0.8766	0.3289	0.3289
4	46365.8228	46365.9756	0.5689	0.4952	0.4952
5	221514.2324	626025.6641	2.7177	0.5428	0.5428
6	257667.5137	1111437.3594	3.1613	1.9085	1.9085
7	274633.4023	1057540.5781	3.3694	1.2735	1.2735
8	37803.0356	37803.0391	0.4638	0.4987	0.4987
9	18646.3035	8035.9757	0.2288	0.2151	0.2151
10	490460.3398	2992703.5625	6.0174	0.7128	0.7128
11	341131.5586	2462680.1875	4.1853	3.5634	3.5634
12	0.24778189E 09	0.14357465E 13	3039.9989	2893.6768	2893.6945
13	107547.1768	306843.2930	1.3195	1.4225	1.4225
14	966724.3359	34255465.0000	11.8606	16.7213	16.7214
15	910364.2891	31792718.0000	11.1691	16.2884	16.2885
16	24171.5146	24171.5168	0.2966	0.4567	0.4567
17	21724.5988	21724.5112	0.2665	0.4421	0.4421
18	19163.7476	19163.7502	0.2351	0.4241	0.4241
19	16962.6216	16962.6238	0.2081	0.4060	0.4060
20	16625.2874	16625.2893	0.2040	0.4029	0.4030
21	16994.5549	16994.5569	0.2085	0.4062	0.4062
22	213806.7754	3902331.2188	2.6232	6.4028	6.4029
23	151406.3398	415160.0117	1.8576	1.2818	1.2818
24	117443.3994	879227.6875	1.4409	2.9514	2.9514
25	636051.8281	27727790.7500	7.8036	16.7120	16.7121
26	660276.6094	35596650.0000	8.1008	19.2641	19.2642
27	132008.8867	356290.9162	1.6196	1.3222	1.3222
28	314179.2773	1529013.2344	3.8546	1.9751	1.9751
29	263301.7266	946705.1641	3.2304	1.0860	1.0860
30	77663.2158	77663.2158	0.9528	0.2120	0.2120
31	257536.6875	19926028.0000	3.1597	15.3137	15.3138
32	197515.5156	601734.1563	2.4233	1.2289	1.2289
33	353120.4883	1974994.8438	4.3324	2.3370	2.3370
34	36312.9624	88691.5605	0.4455	0.9432	0.9432
35	65380.5845	141727.2988	0.8021	1.0466	1.0466
36	2069057.0781	55011419.5000	25.3850	5.5255	5.5255
37	878600.6172	23227417.5000	10.7794	12.9915	12.9915
38	102021.9805	197424.5254	1.2517	0.9249	0.9249
39	15477.2725	29153.8745	0.1899	0.5671	0.5671
40	99022.7344	334933.0586	1.2149	1.6227	1.6227
41	171289.9863	584343.7109	2.1015	1.6592	1.6592
42	62881.4336	115749.5908	0.7715	0.9083	0.9083
43	131576.0605	314791.2383	1.6143	1.1208	1.1208
44	27879.0183	47493.5122	0.3420	0.6824	0.6824
45	44004.4458	225824.7334	0.5399	1.1190	1.1190
46	36209.8926	39133.5718	0.4443	0.5318	0.5318

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

9/14/67 PAGE 21.

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 81507.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
47	27459.2368	17719.3008	0.3369	0.3223	0.3223
48	35206.1831	27669.4448	0.4319	0.3910	0.3910
49	33675.5908	33675.5938	0.4132	0.4924	0.4924
50	42711747.0000	0.37243877E 11	524.7602	426.1060	426.1086
51	7721749.9375	0.73223842E 09	94.7370	2.9369	2.9369
52	6213743.2500	0.58296016E 09	76.2355	36.6115	36.6117
53	523390.3906	6724794.9375	6.4214	6.4243	6.4243
54	522297.8711	6883456.9375	6.4080	6.5871	6.5871
55	158696.5117	696795.7813	1.9470	2.1813	2.1813
56	298141.1602	2805032.8438	3.6578	4.5864	4.5864
57	35291.7935	35291.8369	0.4330	0.4955	0.4955
58	462468.7656	4413546.1250	5.6740	4.6856	4.6857
59	85426.0273	133115.0000	1.0481	0.7312	0.7312
60	218771.5156	2385067.0000	2.6841	4.6966	4.6966
61	329077.9570	4178487.5313	4.0374	5.9131	5.9131
62	137154.9180	433337.7695	1.6827	1.5764	1.5764

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
1	1.000000						
2	0.119395	1.000000					
3	0.063629	0.025756	1.000000				
4	0.203526	0.062787	0.462948	1.000000			
5	0.317837	0.055228	0.161555	0.206509	1.000000		
6	0.405957	0.114573	0.055406	0.231851	0.122945	1.000000	
7	0.219924	-0.068522	0.094617	0.211337	0.102878	0.387199	1.000000
8	0.262300	0.061934	0.048691	0.134404	0.149217	0.375746	0.274324
9	0.011965	-0.004939	-0.041625	-0.034233	0.030230	0.039570	0.172534
10	-0.377195	-0.028880	0.051660	-0.028478	-0.154916	-0.164222	-0.034101
11	-0.063280	-0.007963	0.139335	0.076824	-0.083173	-0.011947	0.093533
12	0.189004	0.056235	0.124688	0.169652	0.073504	0.321026	0.259095
13	0.020935	0.042200	0.033185	0.124003	0.033874	0.169422	0.143207
14	-0.027918	0.004154	0.017681	0.039552	-0.001589	0.010821	0.133366
15	-0.045715	0.059038	-0.018418	0.039082	-0.059936	0.028794	0.037205
16	-0.106890	0.000095	0.158728	0.093495	-0.047816	-0.007662	0.001785
17	-0.129916	0.004662	0.169311	0.128841	-0.099500	-0.051849	0.028906
18	-0.120408	0.001869	0.184710	0.132695	-0.106603	-0.060666	-0.016269
19	-0.102740	-0.010638	0.184041	0.145018	-0.077282	-0.059129	0.015135
20	0.043698	0.029129	0.079026	0.143675	0.019725	0.122047	0.120045
21	-0.167354	0.010833	0.144323	0.092508	-0.104781	-0.028019	0.018195
22	-0.026359	-0.004325	-0.022727	0.018222	-0.009274	0.039523	0.067422
23	0.209307	0.049988	0.135472	0.192423	0.076253	0.289075	0.229230
24	-0.004539	-0.019616	0.000543	0.037945	-0.005851	0.088390	0.095167
25	-0.123947	0.045771	-0.024303	-0.061833	-0.108896	-0.160265	-0.172998
26	-0.085953	0.047302	-0.019931	-0.030711	-0.029563	-0.178962	-0.215896
27	-0.072711	-0.047691	0.036062	0.013228	-0.145593	-0.082877	-0.019316
28	0.002911	0.022893	-0.038413	-0.009859	0.004022	-0.030657	-0.069401
29	-0.129940	-0.010646	0.020873	-0.042365	-0.047083	-0.009527	-0.058819
30	0.059743	0.003066	0.078938	0.102390	0.159676	0.014372	0.055712
31	0.016671	0.076529	-0.043641	0.010140	-0.026917	0.008049	-0.017277
32	0.063090	0.028270	0.004507	-0.009135	0.033625	-0.022574	0.034623
33	-0.003190	-0.006951	0.065263	0.002215	0.021485	-0.152175	-0.091503
34	-0.062966	0.018064	0.058375	0.106101	-0.025683	-0.014728	0.000899
35	0.081331	-0.013549	0.045978	0.102242	0.091165	0.147124	0.183512
36	0.178210	-0.014109	-0.165166	-0.086252	-0.103893	0.204395	0.146504
37	-0.025759	-0.032445	0.014028	0.016810	0.018243	-0.073849	-0.036582
38	0.305547	0.059220	0.023704	0.152156	0.291530	0.209610	0.129061
39	-0.029706	0.012347	-0.142028	-0.078666	-0.243732	0.203070	0.012078
40	0.213571	0.030080	0.132206	0.192123	0.132079	0.241030	0.260660
41	0.102651	0.007974	0.213905	0.191565	0.073341	0.107036	0.230034
42	0.366869	0.059256	0.066558	0.140972	0.256385	0.336342	0.247542
43	0.416553	0.075080	0.008665	0.094441	0.277805	0.311243	0.268220
44	0.091399	0.104318	0.017202	0.030303	0.031192	0.190472	0.070923
45	-0.013945	0.058953	0.096732	0.175237	0.035869	0.229762	0.138041
46	0.043866	0.037740	0.078883	0.103184	-0.036541	0.188329	0.182133
47	0.403625	0.033924	0.107116	0.207720	0.232004	0.394652	0.333092
48	0.077834	0.048333	-0.028286	-0.000665	0.209891	0.169613	0.056818
49	0.223272	0.001958	0.001884	0.075585	0.187320	0.148652	0.087560
50	0.216823	0.052347	0.087864	0.163691	0.002082	0.436741	0.295880

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
51	0.002922	-0.044446	0.064240	0.066974	0.242143	-0.095077	0.104699
52	0.060111	-0.138158	0.145018	0.121500	0.235141	-0.063268	0.268652
53	0.141016	0.021057	-0.000790	0.061785	0.045238	0.257323	0.132768
54	0.119322	0.052627	0.011694	0.059648	0.061561	0.239396	0.058601
55	0.097305	0.084762	0.046546	0.047860	-0.113829	0.185341	-0.031587
56	0.350798	0.084506	0.085139	0.171187	0.195760	0.247086	0.097693
57	0.063165	0.025096	-0.073976	-0.082927	0.077799	0.018127	-0.034292
58	-0.016573	0.006910	0.173660	0.144171	-0.033325	0.089180	0.121347
59	-0.299419	0.000704	0.039953	-0.004605	-0.163381	-0.119557	0.003501
60	-0.008441	0.018451	0.014675	0.061191	-0.054588	0.072305	0.005594
61	0.093418	0.046665	0.054212	0.075087	-0.005649	0.150659	0.050599
62	0.331503	0.054127	0.083883	0.158514	0.212597	0.356529	0.305778

CORRELATION MATRIX ALL VARIABLES

	8	9	10	11	12	13	14
1	0.262300	0.011965	-0.377195	-0.063280	0.189004	0.020935	-0.027918
2	0.061934	-0.004939	-0.028881	-0.007963	0.056235	0.042200	0.004154
3	0.048691	-0.0341625	0.051660	0.139335	0.124686	0.033185	0.017681
4	0.134404	-0.034233	-0.028478	0.076824	0.169652	0.124003	0.039552
5	0.149217	0.030230	-0.154916	-0.083173	0.073504	0.03874	-0.001589
6	0.375746	0.039570	-0.164222	-0.011947	0.321026	0.169422	0.010821
7	0.274324	0.172534	-0.034101	0.093533	0.259095	0.143207	0.133366
8	1.000000	-0.001500	-0.108582	0.089833	0.283730	0.120254	0.054700
9	-0.001500	1.000000	-0.001866	-0.144823	-0.038868	-0.016147	0.079650
10	-0.108582	-0.001866	1.000000	0.243785	0.119646	0.051967	0.097026
11	0.089833	-0.144823	0.243785	1.000000	0.350446	0.216864	0.140990
12	0.283730	0.038868	0.119646	0.350446	1.000000	0.260031	0.118321
13	0.120254	-0.016147	0.051967	0.216864	0.260031	1.000000	0.607074
14	0.054700	0.079650	0.097026	0.140990	0.118321	0.607074	1.000000
15	0.044115	-0.032229	0.087042	0.154509	0.089456	0.578628	0.697097
16	0.101875	-0.174684	0.276885	0.604785	0.414502	0.227453	0.103434
17	0.044257	-0.117987	0.280243	0.567254	0.382539	0.168150	0.102019
18	0.029650	-0.145854	0.257895	0.547143	0.349187	0.142382	0.110018
19	0.049674	-0.134559	0.245963	0.532404	0.359530	0.154716	0.108317
20	0.140017	-0.098291	0.128458	0.378247	0.398405	0.236443	0.086592
21	0.061543	-0.154021	0.264449	0.551427	0.406003	0.197191	0.104438
22	0.012700	0.050369	0.080360	0.005409	0.060047	0.373418	0.383103
23	0.220517	-0.0346977	0.102500	0.343764	0.563920	0.266524	0.150845
24	0.108042	-0.050634	0.083690	0.177531	0.156892	0.451233	0.383200
25	-0.081730	-0.021358	0.075194	-0.014700	-0.054011	-0.005172	0.019444
26	-0.097958	-0.011073	0.065091	-0.040991	-0.084809	-0.039909	-0.022213
27	-0.017135	-0.014647	0.054405	0.105411	0.022529	-0.028075	0.003514
28	-0.030557	0.010600	-0.051999	-0.053526	-0.066951	-0.024823	0.032537
29	-0.023497	-0.090620	0.068457	-0.033979	-0.013068	-0.014246	-0.017558
30	0.042518	0.049765	-0.040992	-0.026180	0.032283	-0.019370	-0.027719
31	-0.035099	0.037992	0.065698	-0.005643	0.000899	0.016271	0.040352
32	-0.018256	0.076981	0.028581	0.004899	-0.045045	-0.071042	0.010394
33	-0.094039	0.043717	-0.012268	-0.008202	-0.115447	-0.072101	-0.017611
34	0.030472	-0.028292	0.159868	0.272208	0.193507	0.130416	0.089159
35	0.144133	0.073951	0.048365	0.149689	0.265528	0.296204	0.152461
36	0.042021	0.065289	-0.119632	-0.228092	-0.077216	-0.084193	-0.018468
37	-0.083550	-0.011402	0.005330	0.037523	-0.038256	-0.038921	-0.025889
38	0.164523	0.029175	-0.184453	-0.018424	0.139002	0.071913	0.030636
39	0.044079	0.008786	-0.011700	0.007433	0.009533	0.097386	0.064123
40	0.217484	-0.074331	0.092959	0.351433	0.454499	0.288940	0.121007
41	0.222143	-0.074338	0.167325	0.420926	0.443708	0.202078	0.141854
42	0.203521	0.077035	-0.173228	-0.072234	0.208096	0.080054	0.030033
43	0.211028	0.081289	-0.194866	-0.007909	0.293586	0.162281	0.068635
44	0.143921	-0.026894	0.017387	0.123190	0.236140	0.219526	0.116984
45	0.181341	-0.121730	0.192107	0.454045	0.578435	0.330948	0.111199
46	0.173375	-0.093172	0.170494	0.465152	0.639160	0.299995	0.118334
47	0.265885	0.023416	-0.092824	0.056527	0.340890	0.191722	0.094728
48	0.130705	0.000037	-0.040560	-0.009456	0.123959	0.075859	0.027485
49	0.060164	0.006935	-0.148871	-0.097098	0.080241	0.043561	-0.005376
50	0.270293	-0.069961	0.083073	0.352235	0.659568	0.316905	0.136067

CORRELATION MATRIX ALL VARIABLES

	8	9	10	11	12	13	14
51	-0.048382	0.117624	-0.031371	-0.107220	-0.070857	-0.081594	-0.036330
52	-0.008118	0.064107	-0.046879	0.012689	0.053966	-0.035447	-0.020467
53	0.103174	0.001957	-0.101988	-0.096109	0.108448	0.013295	-0.031124
54	0.123320	0.007526	-0.077961	-0.135228	0.072721	-0.030975	-0.029556
55	0.142621	-0.157620	0.037801	0.197454	0.239886	0.127087	0.023621
56	0.270238	-0.051308	-0.168092	0.063232	0.237489	0.086096	0.031970
57	-0.036351	0.357358	-0.113928	-0.202242	-0.071990	-0.036259	-0.066471
58	0.148018	-0.113622	0.242337	0.630304	0.543927	0.292650	0.165995
59	0.021882	-0.078273	0.324705	0.479508	0.260438	0.139800	0.129115
60	0.066305	-0.037814	0.076552	0.199775	0.188619	0.258579	0.169380
61	0.134825	-0.068622	0.007640	0.155886	0.195860	0.256528	0.167485
62	0.257504	0.222345	-0.097837	0.128335	0.340712	0.263013	0.130916

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
1	-0.045715	-0.106890	-0.129916	-0.120408	-0.102740	0.043698	-0.167354
2	0.059038	0.000095	0.054662	0.001869	-0.010638	0.029129	0.010833
3	-0.018418	0.158728	0.169311	0.184710	0.184041	0.079026	0.144323
4	0.039082	0.093495	0.128841	0.132695	0.145018	0.143675	0.092508
5	-0.059936	-0.047816	-0.099500	-0.106603	-0.077282	0.019725	-0.104781
6	0.028794	-0.007662	-0.051849	-0.080666	-0.059129	0.122047	-0.028019
7	0.037205	0.001785	0.028906	-0.016269	0.015135	0.120045	0.018195
8	0.044115	0.101875	0.044257	0.029650	0.049674	0.140017	0.061543
9	-0.002229	-0.174684	-0.117987	-0.145854	-0.134559	-0.098291	-0.154021
10	0.087042	0.276885	0.280243	0.257895	0.245963	0.128458	0.264449
11	0.154509	0.604785	0.567254	0.547143	0.532404	0.378247	0.551427
12	0.089456	0.414502	0.382539	0.349187	0.359530	0.398405	0.406003
13	0.578628	0.227453	0.168150	0.142382	0.154716	0.236443	0.197191
14	0.697097	0.103434	0.102019	0.110018	0.108317	0.086592	0.104438
15	1.000000	0.134277	0.121678	0.127625	0.123488	0.080782	0.109154
16	0.134277	1.000000	0.703624	0.683547	0.670480	0.473583	0.693602
17	0.121678	0.703624	1.000000	0.852179	0.802985	0.454307	0.707875
18	0.127625	0.583547	0.852179	1.000000	0.904948	0.427513	0.454307
19	0.123488	0.670430	0.802985	0.904948	1.000000	0.442957	0.427513
20	0.473583	0.473583	0.454307	0.427513	0.442957	1.000000	0.468250
21	0.109154	0.693602	0.707875	0.720827	0.709755	0.468250	1.000000
22	0.351293	0.032376	0.034204	0.031843	0.031843	0.023060	0.044170
23	0.120367	0.431831	0.355030	0.308273	0.323603	0.396980	0.334326
24	0.418500	0.146096	0.117741	0.110395	0.118609	0.116413	0.136659
25	0.059893	0.009604	0.008615	0.024444	-0.002416	-0.044145	0.017907
26	0.042873	0.007223	0.008683	0.027599	0.014445	-0.079384	0.005448
27	0.027712	0.090435	0.094199	0.090919	0.086858	0.054167	0.113743
28	0.017280	-0.072897	-0.044593	-0.041758	-0.041043	-0.067666	-0.049222
29	-0.021080	-0.030760	-0.033270	-0.017408	-0.010645	0.012603	0.017817
30	-0.054880	0.012504	0.000187	-0.001401	0.035350	-0.001440	-0.003930
31	-0.005155	0.009636	0.016539	0.032553	0.029579	0.038652	-0.005395
32	0.023780	-0.036785	0.006822	0.007272	0.002464	-0.040563	-0.009688
33	-0.027404	-0.063477	-0.012589	-0.006924	-0.024901	-0.099399	-0.117269
34	0.071388	0.378782	0.369173	0.391749	0.370246	0.261959	0.375838
35	0.119316	0.114455	0.131881	0.101422	0.105006	0.251174	0.130102
36	-0.002302	-0.347432	-0.280293	-0.272035	-0.284091	-0.160297	-0.293255
37	-0.001918	0.037903	0.049632	0.038876	0.035668	-0.025948	0.040390
38	-0.004473	-0.001347	-0.058844	-0.071021	-0.050579	0.085791	-0.040510
39	0.117673	-0.005807	0.006983	0.014899	0.008874	-0.015666	0.039395
40	0.083961	0.439673	0.301894	0.256506	0.276199	0.386842	0.369213
41	0.115262	0.457344	0.396659	0.363265	0.362589	0.349793	0.401712
42	0.006891	-0.110135	-0.113138	-0.139114	-0.136162	0.020732	-0.127311
43	0.036465	0.025030	-0.025550	-0.057379	-0.030982	0.141256	-0.001407
44	0.127625	0.179722	0.104156	0.080462	0.071159	0.161886	0.151735
45	0.112010	0.569094	0.511340	0.492861	0.505686	0.524931	0.582812
46	0.128146	0.540322	0.500600	0.479483	0.474687	0.438054	0.538150
47	0.039349	0.079758	0.027888	-0.007067	0.020823	0.177647	0.058060
48	0.018430	-0.002737	-0.026722	-0.019387	-0.022166	0.039505	-0.009859
49	-0.029214	-0.086721	-0.142839	-0.161207	-0.143791	-0.019890	-0.124116
50	0.148448	0.375815	0.349378	0.316709	0.327760	0.388943	0.394670

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
51	-0.122538	-0.134434	-0.126028	-0.136004	-0.112560	-0.056619	-0.166570
52	-0.135246	-0.029061	-0.004019	-0.024095	0.023117	0.008293	-0.018964
53	0.005456	-0.102495	-0.121106	-0.122297	-0.111521	-0.025543	-0.093215
54	0.032962	-0.130382	-0.127224	-0.134042	-0.127742	-0.029596	-0.126554
55	0.105125	0.269211	0.210067	0.203651	0.200667	0.183052	0.247076
56	0.031450	0.080944	0.022536	-0.003601	0.027652	0.114962	0.064154
57	-0.080204	-0.184308	-0.203811	-0.238473	-0.211964	-0.097762	-0.228068
58	0.175986	0.738846	0.683937	0.656290	0.657563	0.541521	0.688372
59	0.151482	0.519607	0.493861	0.501807	0.484035	0.331201	0.476340
60	0.210018	0.220884	0.207743	0.172659	0.165281	0.181667	0.175549
61	0.197859	0.183625	0.103048	0.091581	0.093229	0.159263	0.146393
62	0.097820	0.092869	0.053061	-0.006639	0.005774	0.172953	0.056109

EFA-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

9/14/67 PAGE 28.

CORRELATION MATRIX ALL VARIABLES

	22	23	24	25	26	27	28
1	-0.026359	0.209307	-0.004539	-0.123947	-0.085952	-0.072711	0.002911
2	-0.004325	0.049988	-0.019616	0.045771	0.047302	-0.047691	0.022893
3	-0.022727	0.135472	0.080543	-0.024303	-0.019931	0.036062	-0.038413
4	0.018222	0.192423	0.037945	-0.061833	-0.030711	0.013228	-0.009859
5	-0.009274	0.076253	-0.005851	-0.106896	-0.029562	-0.145593	0.004022
6	0.039523	0.289075	0.088390	-0.160265	-0.178962	-0.082877	-0.030657
7	0.067422	0.229230	0.095167	-0.172998	-0.215896	-0.019316	-0.069401
8	0.013700	0.220517	0.108042	-0.081730	-0.097958	-0.017135	-0.030557
9	0.050369	-0.046977	-0.050634	-0.021358	-0.011073	-0.014647	0.010600
10	0.080360	0.102500	0.083690	0.075194	0.065091	0.034405	-0.051999
11	0.085409	0.343764	0.177531	-0.014700	-0.040991	0.105411	-0.053526
12	0.060047	0.563920	0.156892	-0.054011	-0.084809	0.022529	-0.066952
13	0.373418	0.266524	0.451233	-0.005172	-0.039909	-0.028075	-0.024823
14	0.383103	0.150845	0.383200	0.019444	-0.022213	0.003514	0.032537
15	0.351293	0.120367	0.418600	0.059893	0.042873	0.027712	0.017280
16	0.032376	0.431831	0.146096	0.089604	0.007223	0.090435	-0.072897
17	0.034204	0.355030	0.117741	0.008615	0.008683	0.094199	-0.044593
18	0.031843	0.308273	0.110395	0.004444	0.027599	0.090919	-0.041758
19	0.031843	0.323603	0.118009	-0.002416	0.014445	0.068858	-0.041043
20	0.023060	0.396980	0.116413	-0.044145	-0.079384	0.054167	-0.067666
21	0.044170	0.384326	0.136659	0.017907	0.005448	0.113743	-0.049222
22	1.000000	0.065936	0.442998	0.029068	0.025042	-0.031390	-0.002301
23	0.065936	1.000000	0.205767	-0.005228	-0.040868	-0.015410	-0.087022
24	0.442998	0.205767	1.000000	0.027239	0.007678	-0.006742	-0.060789
25	0.029068	-0.005228	0.027239	1.000000	0.514975	-0.016562	-0.020036
26	0.025042	-0.040868	0.007678	0.514975	1.000000	0.008257	0.002931
27	-0.031390	-0.015410	-0.006742	-0.016562	0.008257	1.000000	0.028805
28	-0.002301	-0.087022	-0.060789	-0.020036	0.002931	0.028805	1.000000
29	0.010614	-0.050204	0.009085	0.002662	-0.011353	-0.077806	0.178391
30	-0.062074	0.037149	0.008066	-0.028965	-0.004455	0.044525	-0.052931
31	-0.002758	0.005334	0.000588	0.063043	0.047352	-0.010869	0.060874
32	0.042405	0.021469	-0.042800	-0.005386	0.013769	-0.092008	0.039703
33	0.046493	-0.112594	-0.066196	0.090571	0.123212	-0.034334	0.019996
34	0.071996	0.216914	0.080667	0.066031	0.068117	0.007823	-0.027108
35	0.130446	0.206961	0.153760	-0.030783	-0.056986	-0.035489	-0.058230
36	-0.024597	-0.097280	-0.026093	-0.035924	-0.111224	-0.041152	0.004753
37	0.007602	-0.031038	0.023376	-0.015236	-0.005805	0.011105	-0.022073
38	-0.011958	0.147396	0.050267	-0.031366	-0.059222	-0.053460	0.009800
39	0.077223	0.048581	0.045219	0.078115	0.056593	0.009771	-0.021898
40	0.060209	0.469349	0.162330	-0.094252	-0.070233	0.036316	-0.069373
41	0.071016	0.418160	0.125104	-0.077710	-0.047451	0.087946	-0.075946
42	0.037005	0.208904	0.037848	-0.085900	-0.108718	-0.037992	-0.012714
43	0.025168	0.278819	0.073946	-0.119013	-0.129159	-0.094722	-0.053542
44	0.068392	0.275908	0.130223	0.001988	-0.006098	-0.044361	-0.046833
45	0.053098	0.515514	0.201921	-0.005785	-0.027335	0.040585	-0.104956
46	0.055659	0.530329	0.171111	-0.012642	-0.072789	0.059268	-0.096056
47	0.038270	0.352164	0.100401	-0.116898	-0.129971	-0.093352	-0.026783
48	0.010578	0.070828	0.059363	-0.021613	-0.081618	-0.099492	-0.032031
49	-0.016604	0.038803	0.023961	-0.122524	-0.086284	-0.040419	0.040914
50	0.082027	0.583028	0.221748	-0.054059	-0.106700	-0.003154	-0.098765

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

9/14/67 PAGE 29.

CORRELATION MATRIX ALL VARIABLES

	22	23	24	25	26	27	28
51	-0.037868	-0.091581	-0.086382	-0.121340	-0.056133	-0.005076	-0.001412
52	-0.077906	0.030028	-0.021931	-0.175465	-0.138359	0.041255	0.009319
53	-0.007553	0.098074	0.040744	-0.006673	-0.018238	-0.063414	-0.046749
54	0.019488	0.055781	0.046087	-0.004368	-0.020594	-0.088171	0.003920
55	-0.009436	0.215419	0.128921	0.054141	0.046780	-0.029780	-0.040107
56	-0.010543	0.231453	0.095361	-0.018799	-0.022870	-0.079406	0.007955
57	0.009328	-0.043364	-0.018152	-0.001869	-0.002548	-0.090622	0.045312
58	0.096805	0.513515	0.192454	-0.007485	-0.029548	0.093425	-0.125875
59	0.105228	0.258398	0.174160	0.034044	0.032328	0.079895	-0.051590
60	0.112999	0.169215	0.164528	0.051630	0.017469	0.003543	-0.028513
61	0.088665	0.209018	0.150091	0.046257	0.011200	0.018399	-0.068642
62	0.056594	0.336843	0.139342	-0.089804	-0.125804	-0.013953	-0.081989

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

9/14/67 PAGE 30.

CORRELATION MATRIX ALL VARIABLES

	29	30	31	32	33	34	35
1	-0.129940	0.059743	0.016671	0.063090	-0.003190	-0.062966	0.081331
2	-0.010646	0.003066	0.076529	0.028270	-0.006951	0.018064	-0.013549
3	0.020873	0.078938	-0.043641	0.004507	0.065263	0.058375	0.045978
4	-0.042365	0.102390	0.010140	-0.009135	0.002215	0.106101	0.102242
5	-0.047083	0.159676	-0.026917	0.033625	0.021485	-0.025683	0.091165
6	-0.009527	0.014372	0.008049	-0.022574	-0.152175	-0.014728	0.147124
7	-0.058819	0.055712	-0.017277	0.034623	-0.091503	0.000899	0.183512
8	-0.023497	0.042518	-0.035099	-0.018256	-0.094039	0.030472	0.144133
9	-0.090620	0.049765	0.037992	0.076981	0.043717	-0.028292	0.073951
10	0.068457	-0.040991	0.065698	0.028581	-0.012268	0.159868	0.048365
11	-0.033979	-0.026180	-0.005643	0.004899	-0.008202	0.272208	0.149689
12	-0.013068	0.032283	0.000899	-0.045045	-0.115447	0.193507	0.265528
13	-0.014246	-0.019370	0.016271	-0.071042	-0.072101	0.130416	0.296204
14	-0.017358	-0.027719	0.040352	0.010394	-0.017611	0.089159	0.152461
15	-0.021080	-0.054880	-0.005155	0.023780	-0.027404	0.071388	0.119316
16	-0.030760	0.012504	0.009636	-0.036785	-0.063477	0.378782	0.114455
17	-0.033270	0.000187	0.016539	0.006822	-0.012589	0.369173	0.131881
18	-0.017408	-0.001401	0.032553	0.007272	-0.006924	0.391749	0.101422
19	-0.010645	0.035350	0.029579	0.002464	-0.024901	0.370246	0.105006
20	0.012603	-0.001440	0.038652	-0.040563	-0.099399	0.261959	0.251174
21	0.017817	-0.003930	-0.005395	-0.096898	-0.117269	0.375838	0.130102
22	0.010615	-0.062074	-0.002758	0.042405	0.046493	0.071996	0.130446
23	-0.050204	0.037149	0.005334	0.021469	-0.112594	0.216914	0.206961
24	0.009085	0.008066	0.000598	-0.042800	-0.066196	0.080667	0.153760
25	0.002662	-0.028965	0.063043	-0.005386	0.090571	0.066031	-0.030783
26	-0.011353	-0.004455	0.047352	0.013769	0.123212	0.068117	-0.056986
27	-0.077806	0.044525	-0.010869	-0.092008	-0.034334	0.007823	-0.035489
28	0.178391	-0.052931	0.060874	0.039703	0.019996	-0.027108	-0.058230
29	1.000000	-0.044834	0.011331	-0.067121	0.060482	-0.046750	-0.013203
30	-0.044834	1.000000	-0.068575	0.016682	-0.002936	-0.031127	0.076754
31	0.011331	0.068575	1.000000	0.029938	0.016950	0.034137	-0.002341
32	-0.067121	0.016682	0.029938	1.000000	0.330484	0.136076	0.012096
33	0.060482	-0.002936	0.016950	0.330484	1.000000	0.109518	-0.007125
34	-0.046750	0.031127	0.034137	0.136076	0.109518	1.000000	0.112613
35	-0.013203	0.076754	-0.002341	0.012096	-0.007125	0.112613	1.000000
36	-0.050505	-0.095452	-0.008223	0.081958	-0.075307	-0.138926	-0.029808
37	0.092763	0.030112	-0.078326	-0.037287	-0.038410	-0.020038	-0.050485
38	-0.072254	0.041847	-0.007355	0.009380	-0.097547	-0.037412	0.047264
39	-0.006513	-0.045789	0.011466	-0.053332	-0.037787	0.045276	-0.001309
40	-0.143125	0.037446	-0.034879	-0.092646	-0.120057	0.183687	0.216431
41	0.001696	0.038243	0.008710	-0.037070	-0.037244	0.209408	0.175256
42	-0.098865	0.067320	-0.030530	0.044542	-0.040444	-0.069159	0.130433
43	-0.061738	0.104854	-0.055847	0.072360	-0.090949	0.011931	0.147744
44	-0.080394	0.000916	-0.001861	-0.043410	-0.019075	0.096795	0.150016
45	-0.053301	0.038922	0.009366	-0.147892	-0.173810	0.263137	0.244748
46	-0.081584	-0.006047	0.004995	-0.071560	-0.120584	0.285814	0.207339
47	-0.031449	0.084224	0.007037	0.032950	-0.071280	0.029246	0.166095
48	-0.070347	0.028347	-0.039233	0.016661	-0.102611	0.015141	0.083246
49	0.039143	0.081606	-0.024787	-0.017317	0.009548	-0.095816	0.025721
50	-0.043762	-0.024694	0.001475	-0.0367935	-0.124695	0.159768	0.240302

CORRELATION MATRIX ALL VARIABLES

	29	30	31	32	33	34	35
51	-0.018689	0.126111	-0.032561	0.023713	0.065135	-0.094762	0.037341
52	-0.011613	0.151928	-0.075411	-0.066876	-0.028285	-0.091812	0.081126
53	-0.003868	-0.015034	-0.027945	0.004011	-0.079938	-0.052599	0.065414
54	0.013536	-0.026830	0.017966	0.038128	-0.027206	-0.051730	0.052003
55	0.017682	-0.082714	0.036838	-0.024998	-0.075799	0.090449	0.050908
56	0.006570	0.052208	-0.015463	-0.047966	-0.096965	-0.006222	0.090403
57	0.004043	0.028310	0.053338	0.040370	0.046789	-0.123040	-0.010607
58	0.000598	0.012355	-0.007010	-0.028029	-0.066177	0.389246	0.221077
59	0.001495	-0.028326	0.040784	0.003328	-0.033581	0.288251	0.121650
60	-0.059293	-0.052757	0.019004	-0.031690	0.011463	0.148837	0.157073
61	-0.069841	-0.045934	0.001847	-0.072423	-0.025173	0.112084	0.133571
62	-0.115073	0.042147	-0.039193	0.027335	-0.070148	0.061513	0.279249

CORRELATION MATRIX ALL VARIABLES

	36	37	38	39	40	41	42
1	0.178210	-0.025759	0.305547	-0.029706	0.213571	0.102651	0.366869
2	-0.014109	-0.032445	0.059220	0.012347	0.030080	0.007974	0.059256
3	-0.165166	0.014028	0.023704	-0.142028	0.132206	0.213905	0.066558
4	-0.086252	0.016810	0.152156	-0.078666	0.192123	0.191565	0.140972
5	-0.103893	0.018243	0.291530	-0.243732	0.132079	0.073341	0.256385
6	0.204395	-0.073849	0.209610	0.203070	0.241030	0.107036	0.336342
7	0.146504	-0.036582	0.129061	0.012078	0.260660	0.230034	0.247542
8	0.042021	-0.085550	0.164523	0.044079	0.217484	0.22143	0.203521
9	0.065289	-0.011402	0.029175	0.008786	-0.074331	-0.074338	0.077035
10	-0.119632	0.006330	-0.184453	-0.011700	0.092959	0.167325	-0.173228
11	-0.228092	0.037523	-0.018424	0.007433	0.351433	0.167325	-0.072234
12	-0.077216	-0.038256	0.139002	0.009533	0.454499	0.443708	0.208096
13	-0.084193	-0.038921	0.071913	0.097386	0.288940	0.202078	0.080054
14	-0.018468	-0.025889	0.030636	0.064123	0.121007	0.141854	0.030033
15	-0.002302	-0.001918	-0.004475	0.117673	0.083961	0.115262	0.006891
16	-0.347432	0.037903	-0.001347	-0.005807	0.439673	0.457344	-0.110135
17	-0.280293	0.049632	-0.058844	0.006983	0.301894	0.396659	-0.113138
18	-0.272035	0.038876	-0.071021	0.014899	0.256506	0.363265	-0.139114
19	-0.284091	0.035668	-0.050579	0.008874	0.276199	0.362589	-0.136162
20	-0.160297	-0.025948	0.085791	-0.015666	0.386842	0.349793	0.020732
21	-0.293255	0.340390	-0.040510	0.039395	0.369213	0.401712	-0.127311
22	-0.024597	0.007602	-0.011958	0.077223	0.060209	0.071016	0.037005
23	-0.097280	-0.031038	0.147396	0.048581	0.469349	0.418160	0.208904
24	-0.026093	0.023376	0.050267	0.045219	0.162330	0.125104	0.037848
25	-0.035924	-0.015236	-0.031366	0.078115	-0.094252	-0.077710	-0.085900
26	-0.111224	-0.005805	-0.059222	0.056593	-0.070233	-0.047451	-0.108718
27	-0.041152	0.011105	-0.053460	0.009771	0.036316	0.087946	-0.037992
28	0.004753	-0.022073	0.009800	-0.021898	-0.069373	-0.075946	-0.012714
29	-0.050505	0.092763	-0.072254	-0.006513	-0.143125	0.001696	-0.098865
30	-0.095452	0.030112	0.041847	-0.045789	0.037446	0.038243	0.067320
31	-0.008223	-0.078326	-0.007355	0.011466	-0.034879	0.008710	-0.030530
32	0.081958	-0.037287	0.009380	-0.053332	-0.092646	-0.037070	0.044542
33	-0.075307	-0.038410	-0.097547	-0.037787	-0.120057	-0.037244	-0.040444
34	-0.138926	-0.020038	-0.037412	0.045276	0.183687	0.209408	-0.069159
35	-0.029808	-0.050485	0.047264	-0.001309	0.216431	0.175256	0.130433
36	1.000000	-0.087907	0.082867	0.093984	-0.182462	-0.213213	0.086002
37	-0.087907	1.000000	-0.034108	-0.065408	-0.056214	0.014575	-0.010215
38	0.082867	-0.034108	1.000000	-0.053425	0.154835	0.043108	0.207700
39	0.093984	-0.065408	-0.053425	1.000000	-0.020930	-0.059667	0.030632
40	-0.162462	-0.056214	0.154835	-0.020930	1.000000	0.569683	0.247631
41	-0.213213	0.014575	0.043108	-0.059667	0.569683	1.000000	0.179125
42	0.086002	-0.010215	0.207700	0.030632	0.247631	0.179125	1.000000
43	0.052001	-0.028271	0.294980	-0.020403	0.287265	0.146070	0.376935
44	-0.045565	-0.064974	0.074882	0.059117	0.240330	0.211965	0.131258
45	-0.211098	-0.024181	0.107867	0.064691	0.540457	0.420254	0.072273
46	-0.153034	-0.030657	0.057071	0.098930	0.507163	0.486426	0.100855
47	0.006731	-0.030747	0.273351	-0.009108	0.393992	0.252011	0.382142
48	0.113823	-0.085213	0.229447	0.090386	0.106540	0.021853	0.123655
49	0.032624	0.043047	0.152504	-0.083131	0.096483	0.029846	0.199791
50	0.109341	-0.058232	0.149407	0.155305	0.507703	0.444095	0.258340

CORRELATION MATRIX ALL VARIABLES

	36	37	38	39	40	41	42
51	-0.089714	0.020762	-0.009772	-0.213248	-0.068994	-0.057441	0.008601
52	-0.105734	0.062999	0.015431	-0.207530	0.078651	0.071119	0.047932
53	0.116002	0.137304	0.074438	0.059164	0.005408	0.017270	0.184574
54	0.090068	0.147455	0.056230	0.039589	-0.049646	-0.021372	0.136093
55	-0.029197	0.007375	0.047534	0.096714	0.170808	0.148412	0.039644
56	-0.021642	0.013769	0.242943	0.008215	0.192391	0.158563	0.222368
57	0.058021	-0.032932	0.026699	-0.058922	-0.098040	-0.111223	0.054453
58	-0.269138	0.019774	0.039251	0.022203	0.496059	0.52969	-0.008471
59	-0.200464	-0.015660	-0.091879	0.072302	0.247370	0.261482	-0.190720
60	-0.030355	-0.038853	0.015788	0.028668	0.148118	0.133305	0.015422
61	-0.050919	-0.025860	0.071510	0.056492	0.198202	0.171200	0.065969
62	0.048149	-0.015707	0.236166	0.018117	0.322435	0.269671	0.405046

CORRELATION MATRIX ALL VARIABLES

	43	44	45	46	47	48	49
1	0.416553	0.091399	-0.013945	0.043866	0.403625	0.077834	0.223272
2	0.075080	0.104318	0.058953	0.037740	0.033924	0.048333	0.001958
3	0.008666	0.017202	0.096732	0.078883	0.107116	-0.028286	0.001884
4	0.094441	0.030303	0.175237	0.103184	0.207720	-0.000665	0.075585
5	0.277805	0.031192	0.035869	-0.036541	0.232004	0.209891	0.187320
6	0.311243	0.190472	0.229762	0.188329	0.394652	0.169613	0.148652
7	0.268220	0.070923	0.138041	0.182133	0.333092	0.056818	0.087560
8	0.211028	0.143921	0.181341	0.173375	0.265885	0.130705	0.060164
9	0.081289	-0.026894	-0.123730	-0.093172	0.023416	0.000037	0.006935
10	-0.194866	0.017387	0.192107	0.170494	-0.092824	-0.040560	-0.148871
11	-0.007909	0.123150	0.454045	0.465152	0.056527	-0.009456	-0.097098
12	0.293586	0.236140	0.578435	0.639160	0.340890	0.123959	0.080241
13	0.162281	0.219526	0.330948	0.299995	0.191722	0.075859	0.043561
14	0.068635	0.116984	0.111190	0.118334	0.094728	0.027435	-0.005376
15	0.036465	0.127625	0.112030	0.128146	0.039349	0.018430	-0.029214
16	0.025030	0.179722	0.569094	0.540322	0.079758	-0.002737	-0.086721
17	-0.025550	0.104156	0.511340	0.500600	0.027888	-0.026722	-0.142839
18	-0.057379	0.080462	0.492861	0.479483	-0.007067	-0.019387	-0.161207
19	-0.030982	0.071159	0.505686	0.474687	0.020823	-0.022166	-0.143791
20	0.141256	0.181886	0.524931	0.438054	0.177647	0.039505	-0.019890
21	-0.001407	0.151735	0.582812	0.538150	0.058060	-0.009859	-0.124116
22	0.025168	0.068392	0.053098	0.055659	0.038270	0.010578	-0.016604
23	0.278819	0.275908	0.515514	0.530329	0.352164	0.070828	0.038803
24	0.073946	0.130223	0.201921	0.171111	0.100401	0.059363	0.023961
25	-0.119013	0.001988	-0.005785	-0.012642	-0.116898	-0.021613	-0.12524
26	-0.129159	-0.006098	-0.027335	-0.072789	-0.129971	-0.081618	-0.086284
27	-0.094722	-0.044361	0.040585	0.059268	-0.093352	-0.099492	-0.040419
28	-0.053542	-0.046833	-0.104956	-0.096056	-0.026783	-0.032031	0.040914
29	-0.061738	-0.080394	-0.053301	-0.081584	-0.031449	-0.070347	0.039143
30	0.104854	0.000916	0.038922	-0.006047	0.084224	0.028347	0.081605
31	-0.055847	-0.001861	0.009366	0.004995	0.007037	-0.039233	-0.024787
32	0.072360	-0.043410	-0.147892	-0.071560	0.032950	0.016661	-0.017317
33	-0.090949	-0.019075	-0.173810	-0.120584	-0.071280	-0.102611	0.009548
34	0.011931	0.096795	0.263137	0.285814	0.029246	0.015141	-0.095616
35	0.147744	0.150016	0.244748	0.207339	0.166095	0.083246	0.025721
36	0.052001	-0.045565	-0.211098	-0.153034	0.006731	0.113823	0.032624
37	-0.028271	-0.0364974	-0.024181	-0.030657	-0.030747	-0.085213	0.043047
38	0.294980	0.074882	0.107867	0.057071	0.273351	0.229447	0.152504
39	-0.020403	0.059117	0.064691	0.098930	-0.009108	0.090386	-0.083131
40	0.287265	0.240330	0.540457	0.507163	0.393992	0.106540	0.096483
41	0.146070	0.211965	0.420254	0.486426	0.252011	0.021853	0.029846
42	0.376935	0.131258	0.072273	0.100855	0.382142	0.123655	0.199791
43	1.000000	0.125368	0.189100	0.186295	0.415962	0.158943	0.147142
44	0.125368	1.000000	0.307459	0.281132	0.199026	0.040575	0.035969
45	0.189100	0.307459	1.000000	0.652756	0.335282	0.091619	0.011605
46	0.186295	0.281132	0.652756	1.000000	0.244993	0.128178	0.002531
47	0.415962	0.199026	0.335282	0.244993	1.000000	0.113698	0.131105
48	0.158943	0.040575	0.091619	0.128178	0.113698	1.000000	0.026631
49	0.147142	0.035969	0.011605	0.002531	0.131105	0.026631	1.000000
50	0.248814	0.332295	0.679996	0.664808	0.400448	0.142953	0.055422

CORRELATION MATRIX ALL VARIABLES

	43	44	45	46	47	48	49
51	0.041265	-0.102236	-0.146869	-0.153316	-0.028124	-0.063255	0.110014
52	0.104832	-0.121965	-0.031681	-0.030205	0.046997	-0.034961	0.151997
53	0.168181	0.066885	0.006034	0.019412	0.146623	0.025454	0.076845
54	0.124124	0.030067	-0.032687	-0.022148	0.116984	0.038134	0.056286
55	0.084484	0.156686	0.289930	0.235676	0.110799	-0.001504	-0.005703
56	0.243252	0.149199	0.215101	0.139761	0.304085	0.096479	0.123985
57	0.057738	0.003237	-0.173583	-0.152084	0.022360	-0.088450	0.068971
58	0.132209	0.218732	0.644066	0.634458	0.180991	0.026254	-0.055778
59	-0.106794	0.121743	0.389104	0.418858	-0.036330	-0.006281	-0.161470
60	0.056692	0.266992	0.226868	0.220344	0.063260	0.034996	0.011440
61	0.106411	0.438638	0.236537	0.223957	0.136363	0.038639	-0.010335
62	0.389436	0.240079	0.290484	0.265156	0.418158	0.094661	0.178752

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	50	51	52	53	54	55	56
1	0.216823	0.002922	0.060111	0.141016	0.119322	0.097305	0.350798
2	0.052347	-0.044449	-0.138158	0.021056	0.052627	0.084762	0.084506
3	0.087864	0.064240	0.145018	-0.000790	0.011694	0.046546	0.085139
4	0.163691	0.066974	0.121500	0.061785	0.059648	0.047860	0.111187
5	0.002082	0.242143	0.235141	0.045238	0.061561	-0.0113829	0.195760
6	0.436741	-0.095077	-0.063268	0.257323	0.239396	0.185341	0.247086
7	0.295880	0.104699	0.268652	0.132767	0.068601	-0.031587	0.097693
8	0.270293	-0.048382	-0.008118	0.103174	0.123320	0.142621	0.270238
9	-0.069961	0.117624	0.064107	0.001957	0.007526	-0.0157620	-0.051308
10	0.083073	-0.031371	-0.046879	-0.101988	-0.077961	0.037801	-0.168092
11	0.352335	-0.107220	0.012689	-0.096109	-0.135228	0.197454	0.063232
12	0.659568	-0.070856	0.053966	0.108448	0.072721	0.239886	0.237489
13	0.316905	-0.081594	-0.035447	0.013295	-0.030975	0.127087	0.086096
14	0.136067	-0.036330	-0.020467	-0.031124	-0.029556	0.023621	0.031970
15	0.148448	-0.122538	-0.135246	0.005456	0.032962	0.105125	0.031450
16	0.375815	-0.134434	-0.029061	-0.102495	-0.130382	0.269211	0.080944
17	0.349378	-0.126028	-0.004019	-0.121106	-0.127224	0.210067	0.022536
18	0.316709	-0.136004	-0.024095	-0.122297	-0.134042	0.203651	-0.003601
19	0.327760	-0.112560	0.023117	-0.111521	-0.127742	0.200667	0.027652
20	0.388943	-0.056619	0.008293	-0.025543	-0.029596	0.183052	0.114962
21	0.394670	-0.166570	-0.018964	-0.093215	-0.126554	0.247076	0.064154
22	0.082027	-0.037868	-0.077906	-0.007553	0.019488	-0.009436	-0.010543
23	0.583028	-0.091582	0.030028	0.098074	0.055781	0.215419	0.231453
24	0.221748	-0.086382	-0.021931	0.040744	0.046087	0.128921	0.095361
25	-0.054059	-0.121340	-0.175465	-0.006673	-0.004368	0.054141	-0.018799
26	-0.106700	-0.056133	-0.138359	-0.018238	-0.020594	0.046780	-0.022870
27	-0.003154	-0.005076	0.041255	-0.063414	-0.088171	-0.029780	-0.079406
28	-0.098765	-0.001412	0.009319	-0.046749	0.003920	-0.040107	0.007955
29	-0.043762	-0.018689	-0.011613	-0.003868	0.013536	-0.017682	0.006570
30	-0.024694	0.126111	0.151928	-0.015034	-0.026830	-0.082714	0.052208
31	0.001475	-0.032561	-0.075411	-0.027945	0.017966	0.036838	-0.015463
32	-0.067935	0.023713	-0.066876	0.004011	0.038128	-0.024998	-0.047966
33	-0.124695	0.065135	-0.028285	-0.079938	-0.027306	-0.075799	-0.096965
34	0.159768	-0.094762	-0.091812	-0.052599	-0.051730	0.090449	-0.006222
35	0.240302	0.037341	0.081126	0.065414	0.052003	0.050908	0.090403
36	0.109341	-0.089715	-0.105734	0.116002	0.090068	-0.029197	-0.021642
37	-0.058232	0.020762	0.062999	0.137304	0.147455	0.007375	0.013769
38	0.149407	-0.009772	0.015431	0.074438	0.056230	0.047534	0.242943
39	0.155305	-0.213248	-0.207530	0.059164	0.039589	0.096714	0.008215
40	0.507703	-0.068994	0.078651	0.005408	-0.049646	0.170808	0.192391
41	0.444095	-0.035741	0.071119	0.017270	-0.021372	0.148412	0.158563
42	0.258340	0.008601	0.047932	0.184574	0.136093	0.039644	0.222368
43	0.248814	0.041265	0.104832	0.168181	0.124124	0.084484	0.243252
44	0.332295	-0.102236	-0.121965	0.066885	0.030067	0.156686	0.149199
45	0.679996	-0.146869	-0.031681	0.006034	-0.032687	0.289930	0.215101
46	0.664808	-0.153316	-0.030205	0.019412	-0.022148	0.235676	0.139761
47	0.400448	-0.028124	0.046997	0.146623	0.116984	0.110799	0.304085
48	0.142953	-0.063255	-0.034961	0.025454	0.038134	-0.001504	0.096479
49	0.055422	0.110014	0.151997	0.076845	0.056286	-0.005700	0.123985
50	1.000000	-0.214494	-0.073716	0.140105	0.094913	0.290338	0.244405

CORRELATION MATRIX ALL VARIABLES

	50	51	52	53	54	55	56
51							
52	-0.214494	1.000000	0.343222	-0.055200	-0.067129	-0.233685	-0.069211
53	-0.073716	0.343222	1.000000	-0.003658	-0.076877	-0.202981	-0.058906
54	0.140105	-0.055200	-0.003658	1.000000	0.626319	0.136806	0.221760
55	0.094913	-0.067129	-0.076877	0.626319	1.000000	0.145592	0.210961
56	0.290338	-0.233685	-0.202981	0.136806	0.145592	1.000000	0.194555
57	0.244405	-0.069211	-0.058906	0.221760	0.210961	0.194555	1.000000
58	-0.113709	0.099263	0.072108	0.068185	0.085094	-0.051898	0.053988
59	0.504694	-0.135468	-0.035572	-0.047633	-0.082480	0.281896	0.132968
60	0.278525	-0.114435	-0.128988	-0.134936	-0.131492	0.136562	-0.075097
61	0.164522	-0.078317	-0.079700	0.040163	0.035023	0.173978	0.097277
62	0.207950	-0.118946	-0.099571	0.082700	0.072885	0.211817	0.161761
	0.378790	-0.015663	0.077919	0.201591	0.147851	0.141296	0.249685

CORRELATION MATRIX ALL VARIABLES

	57	58	59	60	61	62
1	0.063165	-0.016573	-0.299419	-0.008441	0.093418	0.331503
2	0.025096	0.006910	0.000704	0.018451	0.046665	0.054127
3	-0.073976	0.173660	0.039953	0.014675	0.054212	0.083883
4	-0.082927	0.144171	-0.004605	0.061191	0.075087	0.158514
5	0.077799	-0.033325	-0.163381	-0.054588	-0.005649	0.212597
6	0.018127	0.089180	-0.119557	0.072305	0.150659	0.356529
7	-0.034292	0.121347	0.003501	0.005594	0.050599	0.305778
8	-0.036351	0.148018	0.021882	0.066305	0.134825	0.257504
9	0.057358	-0.113622	-0.078273	-0.037814	-0.068622	0.022345
10	-0.113928	0.242337	0.324705	0.076552	0.007640	-0.097837
11	-0.202242	0.630304	0.479508	0.199774	0.155886	0.128335
12	-0.071990	0.543927	0.260438	0.188619	0.195860	0.340712
13	-0.036259	0.292650	0.139800	0.258579	0.256528	0.263013
14	-0.066471	0.165995	0.129115	0.169380	0.167485	0.130916
15	-0.080204	0.175986	0.151482	0.210018	0.197859	0.097820
16	-0.184308	0.738846	0.519607	0.220884	0.183625	0.092869
17	-0.203811	0.683937	0.493861	0.297743	0.103048	0.053061
18	-0.238473	0.656290	0.501807	0.172659	0.091581	-0.006639
19	-0.211964	0.657563	0.484035	0.165281	0.093229	0.005774
20	-0.097762	0.541521	0.331201	0.181667	0.159263	0.172953
21	-0.228068	0.688372	0.476340	0.175549	0.146393	0.056109
22	0.009328	0.096805	0.105226	0.112999	0.088665	0.056594
23	-0.043364	0.513515	0.258398	0.169215	0.209018	0.336843
24	-0.018152	0.192454	0.174160	0.164528	0.150091	0.139342
25	-0.001869	-0.007485	0.034044	0.051630	0.046257	-0.089804
26	-0.002548	-0.029548	0.032328	0.017469	0.011200	-0.125804
27	-0.090622	0.093425	0.079895	0.003543	0.018399	-0.013953
28	0.045312	-0.125875	-0.051590	-0.028513	-0.068642	-0.081989
29	0.004043	0.000598	0.001495	-0.059293	-0.069841	-0.115073
30	0.028310	0.012355	-0.028326	-0.052757	-0.045934	0.042147
31	0.053338	-0.007010	0.040784	0.019004	0.031847	-0.039193
32	0.040370	-0.028029	0.003328	-0.031690	-0.072423	0.027335
33	0.046789	-0.036617	-0.033581	0.011463	-0.025173	-0.070148
34	-0.123040	0.389246	0.288251	0.148837	0.112084	0.061513
35	-0.010607	0.221077	0.121650	0.157073	0.133571	0.279249
36	0.058021	-0.269138	-0.200464	-0.030355	-0.050919	0.048149
37	-0.032932	0.019774	-0.015660	-0.038853	-0.025860	-0.015707
38	0.026699	0.039251	-0.091879	0.015788	0.071510	0.236166
39	-0.058922	0.022203	0.072302	0.028668	0.056492	0.018117
40	-0.098040	0.496059	0.247370	0.148118	0.198202	0.322435
41	-0.111223	0.552969	0.281482	0.133305	0.171200	0.269671
42	0.054453	-0.008471	-0.190720	0.015422	0.065969	0.405046
43	0.057738	0.132209	-0.106794	0.056692	0.106411	0.389436
44	0.003237	0.218732	0.121743	0.266992	0.438638	0.240079
45	-0.173583	0.644066	0.389104	0.226868	0.236537	0.290484
46	-0.152084	0.634438	0.418858	0.220344	0.223957	0.265156
47	0.022360	0.180991	-0.036330	0.063260	0.136363	0.418158
48	-0.088450	0.026254	-0.006281	0.034996	0.038639	0.094661
49	0.068971	-0.055778	-0.161470	0.011440	-0.010335	0.178752
50	-0.113709	0.504694	0.278525	0.164522	0.207950	0.378790

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	57	58	59	60	61	62
51	0.099263	-0.135468	-0.114435	-0.078317	-0.118946	-0.015662
52	0.072108	-0.035572	-0.128988	-0.079700	-0.099571	0.077919
53	0.068185	-0.047633	-0.134936	0.040163	0.082700	0.201591
54	0.085094	-0.082480	-0.131492	0.035023	0.072885	0.147851
55	-0.051898	0.281896	0.136562	0.173978	0.211817	0.141296
56	0.053988	0.132968	-0.075097	0.097277	0.161761	0.249685
57	1.000000	-0.174423	-0.202839	0.002836	-0.011309	0.014695
58	-0.174423	1.000000	0.544190	0.253855	0.240720	0.267625
59	-0.202839	0.544190	1.000000	0.161722	0.097531	-0.035254
60	0.002836	0.253855	0.161722	1.000000	0.668550	0.167396
61	-0.011309	0.240720	0.097531	0.668550	1.000000	0.221500
62	0.014695	0.267625	-0.035254	0.167396	0.221500	1.000000

Elementary Principals

22 Variable Set

EMP•FACTOR ANALYSIS ELEMENTARY PRINCIPALS

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 57589.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
1	290323.4805	2042113.5781	5.0413	3.1694	3.1695
2	1245518.6719	40793791.0000	21.6278	15.5114	15.5115
3	1515023.0313	42809119.0000	26.3075	7.1603	7.1604
4	34109.7407	34109.7417	0.5923	0.4914	0.4914
5	43607.1719	46394.0605	0.7572	0.4819	0.4819
6	32872.8389	35986.9087	0.5708	0.5469	0.5469
7	40828.8721	43341.5400	0.7090	0.5000	0.5000
8	37553.8369	37553.8398	0.6521	0.4763	0.4763
9	40477.5200	40477.5234	0.7029	0.4570	0.4570
10	35101.0542	35101.0552	0.6095	0.4879	0.4879
11	630367.6953	11423678.1250	10.9460	8.8629	8.8630
12	367352.3945	4806750.1875	6.3789	6.5404	6.5404
13	2631390.9688	0.12633408E 09	45.6927	10.2909	10.2910
14	15854.5271	15854.5302	0.2753	0.4467	0.4467
15	215520.0605	843356.6250	3.7424	0.7993	0.7994
16	333628.2813	2011665.9844	5.7933	1.1702	1.1703
17	138032.7344	418060.0078	2.3969	1.2306	1.2306
18	118950.8965	266698.3750	2.0655	0.6039	0.6039
19	164382.8477	577908.9766	2.8544	1.3738	1.3738
20	173588.8340	577578.3203	3.0143	0.9713	0.9713
21	1378363.6406	0.10426753E 09	23.9345	35.1808	35.1811
22	524544.8594	5290509.3125	9.1084	2.9838	2.9839

CORRELATION MATRIX ALL VARIABLES

1	2	3	4	5	6	7
1	1.000000					
2	-0.486008	1.000000				
3	0.120893	-0.117423	1.000000			
4	0.295837	-0.160521	0.064488	1.000000		
5	0.287650	0.040093	0.280398	0.280398	1.000000	
6	0.167681	0.032708	0.161832	0.473110	0.473110	1.000000
7	0.316569	0.055551	0.175900	0.511820	0.226775	0.226775
8	0.374286	-0.055909	0.123240	0.133627	0.127043	0.136289
9	0.288878	0.055970	0.103018	0.328782	0.102747	0.625718
10	0.313729	0.152800	0.321569	0.317686	0.199428	0.177936
11	0.060260	0.060195	0.035381	0.075057	-0.003667	0.079228
12	-0.046704	0.026725	-0.017927	-0.000028	-0.002929	0.022991
13	-0.073549	0.013477	0.016565	0.004579	-0.067942	0.006847
14	-0.255023	-0.090064	-0.139978	-0.022725	-0.162982	-0.184627
15	0.224518	0.229259	0.295111	0.267996	0.202899	0.152265
16	0.059232	0.074762	0.042478	0.043098	0.050971	0.039761
17	0.064319	-0.023910	0.045201	0.040830	0.043805	-0.000979
18	0.100800	-0.061378	0.024528	-0.052506	-0.082478	-0.034459
19	0.088727	0.072375	0.117361	0.075201	-0.006343	0.068313
20	0.166759	0.059687	0.141710	0.182136	0.145864	0.177057
21	-0.268611	-0.278034	-0.367750	-0.314104	-0.237525	-0.162399
22	0.223215	0.233747	0.360130	0.246409	0.299253	0.034637

8	9	10	11	12	13	14
1	0.374286	0.313729	0.060260	-0.046704	-0.073549	-0.255023
2	-0.213607	-0.266514	-0.026676	0.093226	0.058376	0.176998
3	-0.055909	0.152800	0.060195	0.026725	0.013477	-0.090064
4	0.123240	0.321569	0.035381	-0.017927	0.016565	-0.139978
5	0.133627	0.317686	0.075057	-0.000028	0.004579	-0.227725
6	0.127043	0.199928	-0.003667	-0.002929	-0.067942	-0.162982
7	0.136289	0.177936	0.079228	0.022991	0.006847	-0.184627
8	1.000000	0.153590	0.022120	-0.004946	-0.052258	-0.071634
9	0.130809	0.096316	0.089253	0.045142	0.037733	-0.152099
10	0.153590	1.000000	0.010135	-0.078518	-0.036787	-0.202555
11	0.022120	0.010135	1.000000	0.671711	0.595445	-0.013602
12	-0.004946	-0.078518	0.671711	1.000000	0.453858	0.127026
13	-0.052258	-0.036787	0.595445	0.453858	1.000000	0.322372
14	-0.071634	-0.202555	-0.013602	0.127026	0.322372	1.000000
15	0.039042	0.078486	0.044849	-0.090612	-0.004198	-0.300859
16	0.057230	0.037790	0.005019	-0.035489	-0.034079	-0.082027
17	0.047081	0.013273	-0.036887	-0.086257	-0.047820	-0.073737
18	0.060573	-0.008602	-0.032909	-0.063769	-0.067437	-0.054584
19	0.043523	0.033405	0.051095	0.008652	0.099379	-0.105569
20	0.060368	0.125479	0.141821	0.108399	0.146556	-0.004031
21	-0.019008	-0.085834	-0.079849	0.033167	-0.005928	0.271274
22	0.089807	-0.087815	0.107627	0.006976	0.065580	-0.198242

EMPFACTOR ANALYSIS ELEMENTARY PRINCIPALS

1/23/68 PAGE 6.

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
1	0.224518	0.059232	0.064319	0.100600	0.088727	0.166759	-0.268611
2	-0.147580	-0.051722	-0.054372	-0.078455	-0.045672	-0.172279	0.167226
3	0.229259	0.074762	-0.023910	-0.061378	0.072375	0.059687	-0.278034
4	0.295111	0.042478	0.045201	0.024528	0.117361	0.141710	-0.367750
5	0.267996	0.043098	0.040830	-0.052506	0.075201	0.182136	-0.314104
6	0.202899	0.050971	0.043805	-0.082478	-0.006343	0.145864	-0.232525
7	0.152265	0.039761	-0.000979	-0.034459	0.068313	0.177057	-0.162399
8	0.039042	0.057230	0.047081	0.060573	0.043523	0.060368	-0.019008
9	0.078486	0.037790	0.013273	-0.008602	0.033405	0.125479	-0.085834
10	0.334076	0.066791	0.081899	0.005059	0.122631	0.132508	-0.442516
11	0.044849	0.005019	-0.036887	-0.032909	0.051095	0.141821	-0.079849
12	-0.090612	-0.035489	-0.086257	-0.063769	0.008652	0.108399	0.033167
13	-0.004198	-0.034079	-0.047820	-0.067437	0.099380	0.146557	-0.005928
14	-0.300859	-0.082027	-0.073737	-0.054584	-0.105569	-0.004031	0.271274
15	1.000000	0.120532	0.092627	0.002195	0.050840	0.139220	-0.504843
16	0.120532	1.000000	0.333902	0.015569	0.072460	0.014867	-0.107778
17	0.092627	0.333902	1.000000	0.067955	0.004112	0.014768	-0.046342
18	0.002195	0.015569	0.067955	1.000000	0.016106	-0.004827	-0.003799
19	0.050840	0.072460	0.004112	0.016106	1.000000	0.078646	-0.136005
20	0.139220	0.014867	0.014768	-0.004827	0.078646	1.000000	-0.190472
21	-0.504843	-0.107778	-0.046342	-0.003799	-0.136005	-0.190472	1.000000
22	0.510055	0.108408	0.089136	-0.026446	0.257605	0.172565	-0.563140

22

1	0.223215
2	-0.114748
3	0.233747
4	0.360130
5	0.246409
6	0.299253
7	0.034637
8	0.089807
9	-0.087815
10	0.436304
11	0.107627
12	0.006976
13	0.065580
14	-0.198242
15	0.510055
16	0.108408
17	0.089136
18	-0.026446
19	0.257605
20	0.172565
21	-0.563140
22	1.000000

Elementary Principals

62 Variable Set

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 2789.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
1	166883.3555	705329.7065	2.8978	1.9666	1.9666
2	174938.1152	57131.5314	3.0386	0.3067	0.3067
3	43678.5902	48678.6440	0.8453	0.3616	0.3616
4	31156.5215	31156.5425	0.5412	0.4983	0.4983
5	158709.1914	452780.2344	2.7559	0.5170	0.5170
6	184060.9941	801251.9922	3.1961	1.9231	1.9231
7	154480.3375	750279.9141	3.3771	1.2742	1.2742
8	25268.4546	25363.4574	0.4405	0.4964	0.4964
9	14681.1420	6402.5821	0.2549	0.2228	0.2228
10	328642.5820	2020789.3594	5.8804	0.7150	0.7150
11	157310.6523	1000101.0391	2.7403	3.1396	3.1396
12	0.13095849.09	C.59655975E 12	2274.1962	2285.1028	2285.1226
13	65669.3009	157153.2949	1.1055	1.3993	1.3993
14	514745.8594	23577071.2500	10.6747	17.1888	17.1888
15	554503.5078	20455058.2500	9.6287	16.2065	16.2067
16	3510.3505	3310.9891	0.0575	0.2325	0.2328
17	3545.4585	3545.4592	0.0591	0.2339	0.2339
18	2093.1158	2093.1142	0.0354	0.1874	0.1874
19	1285.2554	1235.2368	0.0223	0.1477	0.1477
20	4424.4271	4424.4239	0.0758	0.2563	0.2663
21	420.5155	420.3154	0.0073	0.0851	0.0851
22	128589.0918	2918577.4658	2.4083	6.6992	6.6993
23	58011.0928	202913.4629	1.5283	1.0899	1.0900
24	65377.2734	529783.0313	1.1439	2.8091	2.8091
25	448743.0117	20902623.7500	7.7922	17.3852	17.3853
26	456358.1211	25373896.7500	7.9244	19.4373	19.4374
27	58557.1746	225949.4434	1.5377	1.2485	1.2485
28	227260.7154	1120914.2125	3.9463	1.9726	1.9726
29	186242.1523	670630.0459	3.2340	1.0892	1.0892
30	55034.7573	55054.7368	0.9560	0.2051	0.2051
31	172962.4395	14538858.0000	5.0034	15.6025	15.6027
32	145343.7773	425591.5430	2.4891	1.1697	1.1697
33	258146.7556	1405155.3281	4.4326	2.0752	2.0752
34	12580.8370	38556.3413	0.2185	0.7885	0.7885
35	41784.0566	95657.0254	0.7256	1.0653	1.0653
36	1528638.1719	42250756.0000	20.5440	5.3925	5.3926
37	59547.5719	16440781.5000	10.3414	13.3619	13.3621
38	73086.7012	141509.5723	1.2691	0.9201	0.9201
39	10817.7592	20279.1835	0.1378	0.5629	0.5629
40	45921.7231	127691.7363	0.7974	1.2576	1.2576
41	53520.9130	282280.3789	1.6257	1.5029	1.5030
42	49952.5743	91044.4580	0.8574	0.9102	0.9103
43	54990.1826	227754.0879	1.6495	1.1109	1.1109
44	15230.7535	23532.6350	0.2645	0.5820	0.5820
45	6767.9433	5695.1752	0.1175	0.3704	0.3704
46	14312.0501	10735.8812	0.2572	0.3468	0.3468

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 57589.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
47	19140.5735	11412.8944	0.3324	0.2962	0.2962
48	25088.8275	19910.9717	0.4357	0.3949	0.3949
49	25714.5195	25714.5220	0.4465	0.4971	0.4971
50	24015531.0000	0.149541575 11	417.0166	293.1580	293.1605
51	5474195.5250	0.520821365 09	93.0564	2.8390	2.8390
52	4469452.0525	0.420862355 09	77.6098	35.8427	35.8440
53	397706.8203	343555.8750	6.9050	6.8307	6.8308
54	400448.3945	557575.562	6.9555	6.9631	6.9632
55	51953.7652	538021.0078	1.5957	2.0465	2.0465
56	704227.5605	1899783.0459	3.5569	4.5097	4.5097
57	29193.7113	29193.2376	0.5070	0.5000	0.5000
58	158457.1055	1182455.9688	2.4463	2.9415	2.9415
59	43482.1146	31825.4731	0.7551	0.5744	0.5744
60	116559.2002	1211135.3906	2.0257	4.1143	4.1143
61	157154.3008	2571187.8438	3.4242	5.4267	5.4268
62	54305.9746	295808.5914	1.6453	1.5577	1.5577

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
1	1.00000	0.111752	0.085464	0.219959	0.315225	0.409710	0.226281
2	0.111752	1.00000	0.025870	0.075252	0.052992	0.130485	-0.069077
3	0.085464	0.025870	1.00000	0.555259	0.269985	0.084456	0.119458
4	0.219959	0.075252	0.555259	1.00000	0.254489	0.228500	0.184277
5	0.315225	0.052992	0.269985	0.254489	1.00000	0.105219	0.080648
6	0.409710	0.130485	0.084456	0.228500	0.105219	1.00000	0.389223
7	0.226281	-0.069077	0.119458	0.184277	0.080648	0.389223	1.00000
8	0.270376	0.065272	0.061329	0.099525	0.142932	0.374592	0.280027
9	-0.001623	0.003427	0.002031	-0.005557	-0.004149	0.051246	0.204646
10	-0.004661	-0.025665	0.004243	-0.009482	-0.192161	-0.204586	-0.062016
11	0.028245	-0.005075	0.056571	-0.007971	-0.035260	-0.010055	0.130394
12	0.243413	0.052963	0.077891	0.055822	0.100300	0.311616	0.253545
13	0.027859	0.042640	0.022862	0.065079	0.011663	0.105880	0.085423
14	-0.000969	0.000687	0.009591	0.028002	-0.013120	0.012073	0.132402
15	-0.020912	0.059744	-0.041328	0.014667	-0.053072	0.034898	0.055618
16	0.040379	0.022525	0.046963	0.007885	0.030663	0.013575	-0.019090
17	0.019585	0.026834	0.052271	0.095011	-0.000170	0.032686	0.076095
18	0.053703	0.027255	0.039800	0.057453	0.044543	0.052445	0.008165
19	0.054402	-0.002102	0.034467	0.074600	0.047679	0.064328	0.058373
20	0.110353	0.040466	0.014103	0.003243	0.094231	0.076398	0.046816
21	-0.000978	-0.010407	0.031592	0.003733	-0.009374	-0.019381	0.003126
22	-0.023968	-0.003272	-0.005040	0.014779	-0.007652	0.052223	0.097453
23	0.255264	0.053179	0.104071	0.114166	0.101107	0.279043	0.228928
24	0.002296	-0.017183	-0.002411	-0.020586	-0.062017	0.071166	0.077516
25	-0.134520	0.031319	-0.025113	-0.023560	-0.107648	-0.178360	-0.169899
26	-0.087555	0.037680	-0.018060	0.031427	-0.035594	-0.175879	-0.212842
27	-0.066793	-0.044279	0.005315	0.021855	-0.135691	-0.116080	-0.043935
28	-0.002982	0.024693	-0.023127	0.002587	-0.028490	-0.001157	-0.053177
29	-0.133834	-0.011958	0.034651	-0.043074	-0.046062	-0.004272	-0.061871
30	0.032854	0.001865	0.105282	0.144721	0.138997	-0.020313	0.051737
31	0.025033	0.095184	-0.053655	-0.003246	-0.007404	0.006846	-0.022480
32	0.011021	0.024109	0.012741	0.062919	0.056923	0.089013	0.117068
33	0.010784	-0.015613	0.122024	0.096092	0.087262	-0.093057	-0.049116
34	-0.011454	0.020551	0.017201	0.086068	0.017583	0.034444	-0.012037
35	0.078902	-0.023470	0.052226	0.067185	0.088577	0.082755	0.157605
36	0.173491	-0.012919	-0.133559	-0.071893	-0.113381	0.266496	0.198218
37	-0.023067	-0.031992	-0.004123	0.049226	0.010532	-0.027480	-0.006567
38	0.318506	0.052243	0.064080	0.184371	0.299712	0.192845	0.146212
39	-0.013313	0.025439	-0.020718	-0.096944	-0.257554	0.201417	-0.000555
40	0.234590	0.036684	0.124683	0.165993	0.165927	0.142342	0.228417
41	0.143304	0.013710	0.197928	0.171365	0.134502	0.078333	0.243214
42	0.360466	0.064356	0.122342	0.204932	0.245513	0.329321	0.268233
43	0.416313	0.080603	0.026721	0.099618	0.256410	0.295745	0.254700
44	0.112451	0.084672	0.000455	0.010232	0.030287	0.103393	0.053425
45	0.090292	0.036113	-0.002759	0.011246	0.052490	0.107098	0.016682
46	0.145440	0.046700	-0.050463	-0.046450	-0.002685	0.121987	0.150251
47	0.418937	0.035847	0.146903	0.250631	0.223417	0.268125	0.347962
48	0.678504	0.048674	-0.035701	-0.054971	0.178475	0.134543	0.031119
49	0.195415	-0.005238	0.028127	0.067080	0.158629	0.112998	0.063831
50	0.502609	0.063038	0.050279	0.085069	0.002933	0.442225	0.349429

EMP-F. C. J. S. ANALYSIS ELEMENTARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
51							
52	-0.031246	-0.055254	0.123839	0.083842	0.201376	-0.092721	0.100823
53	0.039102	-0.150554	0.186889	0.094850	0.212874	-0.078762	0.242981
54	0.120580	0.017992	0.013921	0.093132	0.340252	0.271428	0.153302
55	0.100473	0.053751	0.039782	0.086762	0.047677	0.266781	0.078239
56	0.149112	0.099924	-0.017502	0.023452	-0.096607	0.200270	-0.009730
57	0.033319	0.081946	0.095205	0.132471	0.188457	0.219853	0.091934
58	0.027525	0.020926	-0.001321	-0.005581	0.033874	0.015761	-0.052091
59	0.132739	0.023004	0.102544	0.059353	0.070449	0.104066	0.124203
60	-0.259104	-0.010240	-0.079391	-0.166139	-0.209055	-0.205907	-0.054250
61	0.022101	0.021195	0.028907	0.036046	-0.093733	0.044044	-0.008555
62	0.114951	0.043722	0.054982	0.030774	-0.022078	0.107705	0.045589
63	0.029985	0.051653	0.142967	0.190139	0.183691	0.222496	0.307577

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	8	9	10	11	12	13	14
1	0.270375	-0.001623	-0.364661	0.028245	0.243413	0.027869	-0.030969
2	0.005272	0.003487	-0.025665	-0.005075	0.052983	0.042640	0.000687
3	0.001329	0.002031	0.004248	0.056571	0.077891	0.022882	0.009591
4	0.008525	-0.006557	-0.094835	-0.007971	0.055822	0.065079	0.028002
5	0.142932	-0.004149	-0.192161	-0.035260	0.100300	0.011863	-0.013120
6	0.374592	0.051245	-0.204585	-0.010055	0.311616	0.105880	0.012073
7	0.280027	0.204696	-0.062015	0.130394	0.253545	0.085423	0.132402
8	1.000000	0.033085	-0.163104	0.038704	0.254165	0.043849	0.032492
9	0.035085	1.000000	0.051451	-0.016409	0.087703	0.026138	0.125003
10	-0.163104	0.051651	1.000000	0.055811	-0.065849	-0.005205	0.114709
11	0.038704	-0.016409	0.055811	1.000000	0.099986	0.106800	0.118924
12	0.254165	0.087703	-0.065849	0.099986	1.000000	0.088064	0.048799
13	0.043849	0.026138	-0.005205	0.106800	0.088064	1.000000	0.620370
14	0.032492	0.125003	0.114709	0.118924	0.048799	0.620370	1.000000
15	0.029930	0.035543	0.090616	0.114194	0.026952	0.595282	0.733548
16	0.058740	-0.045707	0.051423	0.203837	0.067397	0.044116	0.004970
17	0.011258	0.044968	0.050141	0.197286	0.098085	0.026806	0.023202
18	0.017901	0.006389	0.018166	0.117992	0.056096	0.039648	0.046338
19	0.040589	0.024785	0.016223	0.111802	0.022579	0.028925	0.019153
20	0.053275	-0.029829	-0.065455	0.091032	0.093379	0.024067	-0.006655
21	-0.023288	-0.007257	0.151591	0.103608	-0.032055	-0.000797	-0.025385
22	-0.016491	0.083324	0.099395	0.100783	0.040369	0.391739	0.410664
23	0.180996	0.060870	-0.042321	0.101274	0.415913	0.084517	0.097457
24	0.027890	-0.002832	0.072145	0.118715	0.066831	0.436271	0.417010
25	-0.008287	-0.016356	0.111593	-0.014644	-0.051068	-0.006943	0.034829
26	-0.094900	-0.023022	0.096473	-0.067118	-0.078378	-0.020053	-0.014103
27	-0.028249	0.016540	0.036458	0.043318	-0.068999	-0.076643	-0.012467
28	-0.006354	-0.018388	-0.033602	-0.006906	-0.017089	0.019692	0.050709
29	-0.006365	-0.104361	0.055419	-0.038370	0.004731	-0.002584	-0.009262
30	0.015936	0.051378	-0.050561	-0.032149	0.007307	-0.048335	-0.035839
31	-0.026153	0.008251	0.070301	-0.027196	0.010914	0.004996	0.020560
32	0.040523	0.009956	0.055228	0.141604	0.099275	0.014937	0.049865
33	-0.041214	-0.011578	-0.001491	0.164682	0.047148	0.037670	0.019702
34	0.018341	0.074199	0.042173	0.051538	0.045286	0.051049	0.055462
35	0.055264	0.127858	0.010806	0.093429	0.180854	0.240381	0.147180
36	0.119610	0.004351	-0.019634	-0.022331	0.103997	-0.029664	0.020885
37	-0.065298	-0.009709	-0.009632	0.018797	-0.021497	-0.010402	0.005709
38	0.147163	0.021693	-0.233596	-0.003574	0.112342	0.033502	0.018094
39	0.052718	0.004717	0.024614	0.004680	-0.031784	0.114834	0.074616
40	0.164570	0.017925	-0.049578	0.146061	0.192703	0.115614	0.091721
41	0.195084	0.008850	0.066650	0.218295	0.284378	0.048580	0.113353
42	0.222805	0.053055	-0.174211	0.031450	0.289582	0.074784	0.041563
43	0.193050	0.081477	-0.252585	0.018055	0.289531	0.088100	0.043889
44	0.020021	0.011896	-0.028550	0.032649	0.132116	0.108610	0.107167
45	0.088511	-0.015299	-0.020769	0.095617	0.169842	0.120140	0.026932
46	0.122411	0.013241	-0.005699	0.186774	0.521213	0.131048	0.067256
47	0.258775	0.054459	-0.170597	0.046326	0.262726	0.124413	0.073800
48	0.111147	0.004867	-0.035631	0.000162	0.096923	0.018043	0.033927
49	0.062530	-0.015945	-0.154891	-0.037865	0.135530	0.029537	-0.017257
50	0.269737	0.020584	-0.064538	0.144295	0.529505	0.159437	0.125029

CORRELATION MATRIX ALL VARIABLES

	5	9	10	11	12	13	14
51	-0.047238	0.078509	-0.008971	-0.003446	-0.009120	-0.045555	-0.029269
52	-0.028074	0.072182	-0.003559	0.049551	0.047711	-0.071747	-0.037083
53	0.144522	-0.013942	-0.000541	-0.025951	0.213137	0.031059	-0.011602
54	0.148119	-0.014276	-0.003106	-0.065695	0.201086	0.005232	0.004494
55	0.136843	-0.011743	-0.045634	0.044097	0.130959	0.048659	-0.024683
56	0.260372	-0.043372	-0.021750	0.034270	0.180557	0.017569	-0.009952
57	-0.035502	-0.022267	-0.050885	-0.057455	0.059204	0.023058	-0.046498
58	0.098955	0.044106	0.016422	0.302512	0.300304	0.131469	0.135173
59	-0.059333	0.042805	0.241872	0.189308	-0.030587	0.001982	0.094466
60	0.033057	0.003252	-0.009090	0.095493	0.050155	0.199685	0.157124
61	0.092204	-0.033387	-0.047899	0.089592	0.059891	0.183097	0.150547
62	0.232792	0.033137	-0.0158256	0.148068	0.298071	0.182024	0.116152

CORRELATION MATRIX ALL VARIABLES

	15	15	17	18	19	20	21
1	-0.040912	0.040279	0.019483	0.053703	0.054402	0.110358	-0.040878
2	0.059744	0.022525	0.026884	0.027255	-0.002105	0.040466	-0.010407
3	-0.041128	0.046965	0.062271	0.039800	0.054467	0.014105	0.031692
4	0.014667	0.007886	0.095011	0.057453	0.074600	0.008243	0.008733
5	-0.043072	0.030461	-0.000170	0.044543	0.047579	0.094231	-0.009374
6	0.04498	0.013575	0.032666	0.052445	0.064328	0.076398	-0.019381
7	0.055113	-0.019050	0.076095	0.003165	0.058573	0.046816	0.003126
8	0.029930	0.063740	0.011258	0.017901	0.040689	0.063275	-0.023288
9	0.035543	-0.045707	0.044966	0.006389	0.024785	-0.029829	-0.007237
10	0.090616	0.051423	0.050141	0.018166	0.016223	-0.065455	0.131591
11	0.114194	0.208387	0.197286	0.117992	0.111802	0.091032	0.103608
12	0.026952	0.067397	0.088085	0.056096	0.022579	0.093379	-0.032055
13	0.595282	0.044116	0.036805	0.039648	0.028925	0.024067	-0.000797
14	0.733548	0.004970	0.025202	0.046338	0.019153	-0.006655	-0.025385
15	1.000000	0.040264	0.030080	0.032854	0.025126	-0.035133	-0.017082
16	0.040264	1.000000	0.214105	0.188446	0.176263	0.105848	0.225416
17	0.030080	0.214105	1.000000	0.631203	0.591405	0.155514	0.221120
18	0.032354	0.188446	0.631203	1.000000	0.714184	0.192800	0.172416
19	0.025126	0.176263	0.591405	0.714184	1.000000	0.180899	0.228013
20	-0.035133	0.105848	0.155514	0.192800	0.180899	1.000000	0.149475
21	-0.017082	0.225416	0.221120	0.172416	0.228013	0.149475	1.000000
22	0.548305	0.009585	0.024329	0.010406	-0.006694	-0.024193	-0.008363
23	0.082733	0.119501	0.105182	0.057265	0.049308	0.107373	0.039907
24	0.460143	0.021965	0.027725	-0.006082	-0.009744	0.004766	-0.000720
25	0.012574	0.054960	-0.007765	0.037114	-0.009277	-0.006416	0.004507
26	0.053103	0.038300	-0.024109	-0.010743	-0.032409	-0.059072	0.000121
27	0.017424	-0.008112	-0.005708	-0.034195	-0.029319	-0.019034	0.023220
28	0.020542	-0.003518	-0.005945	-0.010783	-0.008084	0.000605	-0.011135
29	-0.006598	-0.047842	-0.059625	-0.046572	-0.032456	0.042844	0.022802
30	-0.040155	0.007470	0.020540	0.037401	0.032031	-0.037805	0.011724
31	-0.013704	-0.004113	-0.032911	-0.004843	-0.024788	0.087398	-0.014619
32	0.047214	0.059414	0.094921	0.076728	0.072675	0.102021	-0.002434
33	-0.005722	0.113834	0.107549	0.076859	0.048695	0.036822	0.082790
34	0.020426	0.117643	0.075227	0.111322	0.095042	0.083956	0.186239
35	0.113464	0.012568	0.079663	0.077018	0.052769	0.153394	0.025738
36	0.030750	-0.150572	-0.025058	0.011036	0.008227	0.034576	-0.034925
37	0.023996	-0.016237	-0.014463	-0.005262	-0.033855	-0.022323	0.014370
38	0.005607	0.042023	-0.009896	0.006587	0.013631	0.099367	-0.084776
39	0.125386	0.025122	0.001302	-0.015007	-0.024761	-0.025289	0.044212
40	0.019512	0.198116	0.046933	0.029098	0.036261	0.041214	0.018731
41	0.059299	0.155555	0.099707	0.039720	0.040246	0.070477	0.012640
42	0.023479	0.034673	0.030690	0.026276	0.017762	0.063816	-0.039818
43	0.023329	0.058031	0.036220	0.056441	0.060099	0.099166	-0.045723
44	0.086950	0.082292	0.025857	0.044129	0.031557	0.032444	0.059284
45	0.022515	0.205229	0.118180	0.126970	0.121674	0.137172	0.115200
46	0.057273	0.154481	0.121964	0.099933	0.044625	0.038009	0.049041
47	0.048720	0.032267	0.031590	0.018554	0.035220	0.087101	-0.028099
48	0.000705	0.001813	-0.016601	0.022707	-0.024512	-0.02729	-0.023520
49	-0.023471	-0.025241	-0.038673	-0.069378	-0.062849	0.024808	-0.037746
50	0.131972	0.072104	0.071648	0.022723	0.025707	0.062601	-0.007347

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
51	-0.108775	-0.015084	0.029376	0.001452	0.002409	0.055685	-0.015089
52	-0.129209	-0.040049	0.058213	0.022502	0.056598	0.039477	-0.006445
53	0.028581	-0.005213	-0.017121	0.007694	0.006154	0.037200	-0.024701
54	0.059535	-0.020123	-0.018504	-0.015169	-0.026751	0.043713	-0.026622
55	0.065220	0.132656	0.030355	0.026102	0.046988	0.078307	0.042810
56	0.017797	0.069676	0.010133	-0.021844	0.018365	0.071641	-0.002656
57	-0.052101	0.028773	0.013434	-0.006174	0.012012	0.026564	-0.026753
58	0.124635	0.265947	0.254564	0.169310	0.173574	0.212676	0.157342
59	0.109833	0.123705	0.111638	0.089941	0.053346	-0.010194	0.076790
60	0.199587	0.096973	0.082070	0.057212	0.039412	0.040162	0.002438
61	0.174723	0.113358	0.021396	0.022476	0.023117	0.065499	-0.000244
62	0.079100	0.071284	0.078704	0.056233	0.055848	0.064887	0.005146

CORRELATION MATRIX ALL VARIABLES

	22	23	24	25	26	27	28
1	-0.023968	0.255264	0.002296	-0.134980	-0.087855	-0.066798	-0.002982
2	-0.003272	0.053179	-0.017183	0.031319	0.037680	-0.044279	0.028693
3	-0.006040	0.104071	-0.002411	-0.025113	-0.018060	0.005315	-0.028127
4	0.014779	0.114166	-0.002086	-0.028560	0.031427	0.021855	0.002587
5	-0.007652	0.101107	-0.006201	-0.107648	-0.035394	-0.135691	-0.028490
6	0.052223	0.279043	0.071166	-0.173360	-0.175879	-0.116080	-0.001157
7	0.087453	0.228928	0.077516	-0.169899	-0.212842	-0.043935	-0.053177
8	-0.016491	0.180956	0.027890	-0.088287	-0.094900	-0.038249	-0.006654
9	0.093324	0.060870	-0.002832	-0.016356	-0.032032	0.016546	-0.018388
10	0.099395	-0.042322	0.072146	0.111693	0.096473	0.036458	-0.033602
11	0.100783	0.101274	0.118715	-0.014644	-0.067118	0.043318	-0.006906
12	0.040369	0.415915	0.056831	-0.051068	-0.078378	-0.068999	-0.017089
13	0.291739	0.084517	0.436271	-0.006943	-0.020053	-0.076643	0.019692
14	0.410584	0.097457	0.417010	0.034829	-0.014103	-0.012467	0.050709
15	0.258105	0.082733	0.460143	0.082574	0.062103	0.017424	0.020642
16	0.009385	0.119501	0.021968	0.054968	0.038300	-0.008112	-0.008518
17	0.024329	0.105182	0.027726	-0.003765	-0.034109	-0.005708	-0.005945
18	0.010406	0.057265	-0.006082	0.037114	-0.010743	-0.034195	-0.010783
19	-0.006694	0.049308	-0.009744	-0.009277	-0.032409	-0.029319	-0.008084
20	-0.024193	0.107373	0.004765	-0.006416	-0.059072	-0.019034	0.000605
21	-0.008363	0.039907	-0.009720	0.004507	0.000121	-0.023220	0.011133
22	1.000000	0.070464	0.434533	0.021013	0.033456	-0.055380	-0.038272
23	0.070464	1.000000	0.121042	0.015648	-0.025564	-0.111855	-0.027396
24	0.434533	0.121042	1.000000	0.069776	0.053897	-0.023136	-0.019497
25	0.021013	0.015648	0.069776	1.000000	0.491707	0.019173	-0.018717
26	0.034556	-0.025564	0.053897	0.491707	1.000000	0.056062	-0.022663
27	-0.055180	-0.111855	-0.033136	0.019173	-0.022663	1.000000	0.014192
28	-0.028272	-0.027356	-0.019497	-0.018717	-0.019524	-0.086488	0.175437
29	0.014981	-0.023529	0.020247	0.006714	0.000758	0.056107	0.059631
30	-0.045151	0.023047	-0.022771	-0.001906	0.073863	-0.045993	-0.079532
31	-0.010556	0.011544	0.010111	0.093205	-0.025655	-0.080152	0.034826
32	0.052187	0.177824	0.009597	-0.035016	0.085985	-0.001218	-0.015403
33	0.050089	0.011869	-0.011949	0.066840	0.061315	-0.052219	-0.006220
34	0.040563	0.064815	0.039355	0.045290	0.047003	-0.069053	-0.028822
35	0.121721	0.101329	0.124502	-0.048064	-0.122467	-0.022401	-0.026359
36	-0.026602	0.092950	0.050067	-0.060928	-0.020883	0.016061	-0.038125
37	0.040247	-0.021674	0.069889	-0.007072	-0.073929	-0.044731	0.007837
38	-0.038584	0.140987	0.025718	-0.046433	0.084560	0.00036	-0.006684
39	0.100084	0.070749	0.060074	0.082642	-0.044447	0.000422	-0.023120
40	0.042925	0.210370	0.029810	-0.084330	-0.058634	0.043892	-0.056021
41	0.074396	0.245007	0.038151	-0.093943	-0.121075	0.007880	-0.019263
42	0.041565	0.299795	0.034875	-0.093599	-0.135811	-0.092744	-0.042599
43	-0.001351	0.267952	0.009324	-0.129771	0.001037	-0.079645	-0.024028
44	0.055187	0.181092	0.072179	-0.010364	0.073872	-0.023817	-0.053524
45	0.035543	0.143177	0.023083	0.068551	-0.050682	-0.061149	-0.047125
46	0.043551	0.393329	0.061351	-0.011757	-0.124338	-0.082070	-0.014194
47	0.006856	0.312923	0.041999	-0.121518	-0.071062	-0.118998	-0.009247
48	0.006307	0.053957	0.015940	-0.015943	-0.071062	-0.046849	0.054277
49	-0.017098	0.077409	0.022840	-0.120820	-0.089505	-0.087022	-0.055823
50	0.038287	0.496845	0.152271	-0.073473	-0.108568		

CORRELATION MATRIX ALL VARIABLES

	22	23	24	25	26	27	28
51	-0.017344	-0.002171	-0.078002	-0.097819	-0.049750	-0.012340	-0.028981
52	-0.098370	-0.022241	-0.073878	-0.145506	-0.144459	0.025504	-0.005868
53	-0.002293	0.159738	0.044382	-0.040858	-0.043516	-0.065911	-0.018986
54	0.037126	0.155457	0.084932	-0.013490	-0.029445	-0.086140	0.026968
55	-0.024987	0.136252	0.114722	0.053572	0.056587	-0.095879	-0.004565
56	-0.049024	0.171254	0.017450	-0.036570	-0.013280	-0.072814	0.027831
57	0.032093	0.057638	0.023452	-0.009708	-0.012503	-0.091983	0.033719
58	0.114415	0.277592	0.080967	0.025069	-0.007659	0.014310	-0.095064
59	0.113677	0.005759	0.124773	0.068693	0.094616	0.034662	-0.030913
60	0.072441	0.055680	0.131542	0.019816	0.005109	-0.029598	-0.036483
61	0.050214	0.100247	0.095785	0.014508	0.003959	-0.011445	-0.055798
62	0.034917	0.288154	0.059221	-0.091679	-0.124789	-0.011758	-0.074057

CORRELATION MATRIX ALL VARIABLES

	29	30	31	32	33	34	35
1	-0.133834	0.032834	0.025033	0.061021	0.010784	-0.011954	0.078902
2	-0.011958	0.001865	0.091184	0.024109	-0.016613	0.020551	-0.023470
3	0.034850	0.105282	-0.053655	0.012741	0.122024	0.017201	0.052226
4	-0.048074	0.144721	-0.008245	0.062919	0.096092	0.086068	0.067185
5	-0.048562	0.138957	-0.007404	0.055922	0.087261	0.017583	0.088577
6	-0.004273	-0.020315	0.006845	0.089013	-0.093057	0.024444	0.082755
7	-0.041870	0.051727	-0.022480	0.117068	-0.049115	-0.012037	0.157605
8	-0.006355	0.015926	-0.025153	0.040533	-0.041214	0.018341	0.085264
9	-0.104361	0.051578	0.008251	0.069996	-0.011579	0.074199	0.127858
10	0.065419	-0.030561	0.070301	0.053228	-0.001491	0.042173	0.010806
11	-0.058370	-0.032149	-0.027196	0.141604	0.164682	0.051538	0.093429
12	0.004731	0.007307	0.010914	0.099275	0.047148	0.045286	0.180854
13	-0.002584	-0.048335	0.004996	0.014927	0.037670	0.051049	0.240381
14	-0.009242	-0.035839	0.020560	0.049855	0.019702	0.055462	0.147180
15	-0.005588	-0.034035	0.013706	0.047214	-0.005722	0.020426	0.113464
16	-0.047842	0.007470	-0.004113	0.058414	0.118834	0.117646	0.012568
17	-0.059525	0.020540	-0.032911	0.094921	0.107549	0.075227	0.079665
18	-0.045572	0.037401	-0.004843	0.076728	0.076859	0.111322	0.077018
19	-0.032456	0.032031	-0.024788	0.072675	0.048695	0.095042	0.052769
20	0.042844	-0.037805	0.087598	0.102021	0.036822	0.083956	0.153394
21	0.022802	0.011724	-0.014619	-0.002434	0.082790	0.186239	0.025738
22	0.014981	-0.045151	-0.010556	0.062137	0.050089	0.040563	0.121721
23	-0.023529	0.023047	0.011544	0.177824	0.011869	0.064815	0.101329
24	0.020247	-0.022771	0.010111	0.009597	-0.011949	0.039355	0.124502
25	0.005714	-0.001906	0.093205	-0.035016	0.066840	0.045290	-0.048064
26	-0.019524	0.000758	0.073553	-0.025655	0.085985	0.061315	-0.047003
27	-0.086488	0.055107	-0.045993	-0.080152	-0.001218	-0.052219	-0.069053
28	0.175437	-0.059631	0.079532	0.034826	-0.015403	-0.006220	-0.028822
29	1.000000	-0.043338	0.015351	-0.063456	0.045201	-0.064546	0.000943
30	-0.042338	1.000000	-0.032369	0.039165	0.023914	-0.010772	0.072340
31	0.015351	-0.082369	1.000000	0.054599	0.004351	0.049332	0.000931
32	-0.063456	0.039166	0.054599	1.000000	0.189952	0.131817	0.097068
33	-0.045201	0.023914	0.004351	0.189952	1.000000	0.110923	0.082804
34	-0.045466	-0.010772	0.049332	0.131817	0.110923	1.000000	0.094602
35	0.000943	0.072340	0.000931	0.097068	0.032804	0.094602	1.000000
36	-0.056162	-0.071822	-0.000347	0.074034	-0.187928	-0.001354	0.017033
37	0.078525	0.045349	-0.079888	-0.058526	-0.066829	-0.064027	-0.022612
38	-0.067759	0.014697	-0.003230	0.065908	-0.084522	-0.014577	0.035203
39	-0.014492	-0.033187	0.014275	-0.031614	-0.041232	0.050764	-0.017019
40	-0.149594	0.039981	-0.035139	0.031575	0.029625	0.058131	0.093428
41	-0.003982	0.049408	0.008392	0.057668	0.100844	0.028098	0.110460
42	-0.112283	0.055469	-0.024865	0.077344	-0.043438	0.004985	0.127392
43	-0.043021	0.078564	-0.039059	0.137001	-0.051351	0.044070	0.102369
44	-0.033385	-0.023658	-0.002854	0.047265	0.042904	0.075501	0.107308
45	-0.056542	0.011597	0.025236	0.002352	0.081444	0.159669	0.097195
46	-0.094561	-0.015466	-0.007209	0.104861	0.043745	0.093899	0.065786
47	-0.023819	0.044770	0.017013	0.134988	-0.018937	0.035557	0.098264
48	-0.059524	0.011609	-0.033854	0.067614	-0.085075	0.030531	0.032288
49	0.032965	0.009124	-0.028500	-0.003102	0.017738	-0.064746	0.008726
50	-0.027962	-0.043073	0.017800	0.095380	0.013455	0.014812	0.125091

CORRELATION MATRIX ALL VARIABLES

	29	30	31	32	33	34	35
51	-0.000268	0.113437	-0.052182	0.011747	0.095430	-0.038430	0.073118
52	-0.011139	0.133694	-0.074187	-0.057218	0.038235	-0.096607	0.089185
53	0.004366	-0.013211	-0.021978	0.035795	-0.096165	-0.020815	0.078091
54	0.019041	-0.025372	0.025440	0.052490	-0.078633	0.003653	0.079561
55	0.003271	-0.090215	0.030808	0.029921	-0.048405	0.014000	-0.015991
56	0.005319	0.024262	0.013297	0.026168	-0.038705	-0.021173	0.023703
57	0.017613	-0.000291	0.053296	0.008545	0.042143	-0.023205	0.014295
58	0.002321	0.023485	-0.021292	0.144969	0.145340	0.157941	0.150167
59	-0.025028	-0.047450	0.020290	0.121253	0.070561	0.119350	0.051369
50	-0.035221	-0.071223	-0.021267	0.020750	0.053726	0.082276	0.073816
51	-0.078223	-0.060844	-0.013467	-0.018732	0.041816	0.067502	0.074097
62	-0.113716	0.020829	-0.021810	0.092848	0.003692	0.058231	0.218747

CORRELATION MATRIX ALL VARIABLES

	36	37	38	39	40	41	42
51	-0.156943	0.021524	-0.031717	-0.202336	0.004713	0.039000	-0.002736
52	-0.099555	0.045762	-0.000710	-0.215645	0.098594	0.107329	0.026483
53	0.110998	0.152275	0.078803	0.067256	0.021200	0.090006	0.184263
54	0.070745	0.155125	0.079063	0.045108	-0.043908	0.044732	0.130041
55	0.072503	0.009153	0.050105	0.073510	0.023239	0.010884	0.053364
56	0.049376	0.028875	0.239825	-0.005409	0.091805	0.139052	0.214712
57	-0.014709	-0.029419	0.006593	-0.051015	-0.029399	-0.011584	0.015444
58	-0.025487	-0.015320	0.078364	0.001675	0.216920	0.311592	0.162479
59	0.007977	-0.025250	-0.150723	0.081325	-0.035301	0.029032	-0.169676
60	0.032601	-0.037260	-0.001925	0.029541	0.031303	0.006857	0.019609
61	0.010056	-0.039395	0.041275	0.032590	0.107454	0.090855	0.052100
62	0.054527	0.017429	0.232383	0.015334	0.199523	0.245946	0.405032

CORRELATION MATRIX ALL VARIABLES

	42	43	44	45	46	47	48	49
1	0.415512	0.112951	0.090292	0.143440	0.418937	0.078604	0.195416	
2	0.040302	0.084672	0.085113	0.046700	0.035847	0.048674	-0.005258	
3	0.026721	0.000453	-0.002753	-0.050468	0.146903	-0.035701	0.028127	
4	0.099113	0.012232	0.011245	-0.045450	0.250681	-0.054971	0.067081	
5	0.250410	0.030287	0.052490	-0.002685	0.223417	0.178475	0.159629	
6	0.295745	0.103393	0.107098	0.121987	0.368125	0.134543	0.112993	
7	0.244700	0.033425	0.016782	0.150251	0.347962	0.031118	0.063831	
8	0.195050	0.080021	0.093511	0.122411	0.258775	0.111167	0.062650	
9	0.021477	0.011855	-0.016299	0.013241	0.034493	0.004867	-0.015946	
10	-0.252385	-0.028530	-0.020769	-0.005699	-0.170597	-0.033631	-0.154891	
11	0.018055	0.032649	0.095617	0.186774	0.046326	0.000162	-0.037865	
12	0.209531	0.152115	0.169842	0.521213	0.262726	0.096923	0.135530	
13	0.098100	0.108610	0.120140	0.131048	0.124413	0.018043	0.029537	
14	0.043389	0.107157	0.026932	0.067256	0.073800	0.033927	-0.017257	
15	0.023327	0.035950	0.022515	0.057373	0.048720	0.000706	-0.033471	
16	0.058031	0.042292	0.205229	0.154481	0.032267	0.001813	-0.026241	
17	0.035220	0.025857	0.118180	0.121964	0.031590	-0.016601	-0.068673	
18	0.055441	0.044124	0.126970	0.099933	0.018554	0.022707	-0.069378	
19	0.050099	0.031557	0.121574	0.044625	0.035220	-0.024512	-0.062849	
20	0.099145	0.032444	0.137172	0.033009	0.087101	-0.002729	0.024808	
21	-0.045723	0.059284	0.115200	0.049041	-0.028099	-0.023520	-0.037746	
22	-0.001351	0.055187	0.038543	0.043651	0.006856	0.008507	-0.017093	
23	0.267942	0.161052	0.143177	0.339329	0.051933	0.033997	0.077409	
24	0.009524	0.072179	0.023083	0.061351	0.041999	0.015940	0.022840	
25	-0.128771	-0.013354	0.069551	-0.011757	-0.121518	-0.015943	-0.120820	
26	-0.135511	0.001037	0.073872	-0.050682	-0.124338	-0.071062	-0.089505	
27	-0.092744	-0.079643	-0.023817	-0.051149	-0.082070	-0.118998	-0.046849	
28	-0.042599	-0.024023	-0.053524	-0.047125	-0.014194	-0.009247	0.054278	
29	-0.053021	-0.023395	-0.056542	-0.094561	-0.023818	-0.069624	0.033965	
30	0.076568	-0.023693	0.011597	-0.015465	0.044770	0.011609	0.069124	
31	-0.039059	-0.002854	0.025236	-0.007209	0.017013	-0.033854	-0.028500	
32	0.157001	0.147255	0.002352	0.104861	0.134988	0.067614	-0.003102	
33	-0.051351	0.042904	0.081444	0.043745	-0.018937	-0.085076	0.017738	
34	0.044070	0.075501	0.159659	0.093899	0.035557	0.030531	-0.064746	
35	0.102349	0.107305	0.097195	0.065786	0.098264	0.032288	0.008726	
36	0.102324	0.025765	-0.012385	0.039326	0.104080	0.137271	0.000117	
37	-0.000775	-0.059979	-0.013514	-0.052968	0.012829	-0.073131	0.064007	
38	0.272609	0.040787	0.079387	0.051057	0.264861	0.234005	0.127445	
39	-0.031382	0.035445	0.111878	0.081386	-0.034739	0.079890	-0.083267	
40	0.229337	0.148372	0.141005	0.292697	0.345637	0.064465	0.143522	
41	0.135580	0.133530	0.110283	0.324727	0.270326	-0.001995	0.072951	
42	0.376384	0.111705	0.086228	0.220395	0.397807	0.109086	0.193503	
43	1.000000	0.075592	0.103039	0.242395	0.382582	0.130918	0.143735	
44	0.076592	1.000000	0.208337	0.197174	0.136591	0.010059	0.009111	
45	0.103039	0.208337	1.000000	0.219308	0.150410	0.036630	0.031181	
46	0.242695	0.197174	0.219303	1.000000	0.234580	0.127161	0.040726	
47	0.322582	0.135591	0.150410	0.234580	1.000000	0.062298	0.140720	
48	0.130918	0.010059	0.036630	0.127161	0.062298	1.000000	0.007757	
49	0.143735	0.009111	0.031181	0.040726	0.140720	0.007757	1.000000	
50	0.256552	0.203021	0.212095	0.444730	0.397473	0.071914	0.075425	

CORRELATION MATRIX ALL VARIABLES

	43	44	45	46	47	48	49
51	0.025028	-0.050243	-0.034367	-0.084374	-0.034251	-0.057053	0.08838
52	0.077394	-0.139150	-0.123276	-0.025129	0.026195	-0.030753	0.145513
53	0.171981	0.057959	0.055459	0.123468	0.154605	0.013389	0.076380
54	0.143452	0.022055	0.081272	0.082638	0.146969	0.040526	0.048124
55	0.099235	0.097427	0.171795	0.110486	0.095414	-0.021012	0.022402
56	0.199440	0.111454	0.124589	0.100409	0.257299	0.057018	0.141368
57	0.044798	0.052644	0.032556	0.014786	0.030444	-0.104833	0.053828
58	0.198325	0.130049	0.240079	0.290250	0.182521	-0.007546	0.024146
59	-0.144433	0.018000	0.056090	0.112225	-0.143560	-0.036756	-0.155696
60	0.054767	0.214274	0.139254	0.108097	0.021810	0.008783	0.041216
61	0.004395	0.403277	0.163715	0.133502	0.091412	-0.008424	-0.006634
62	0.340357	0.153011	0.187817	0.229034	0.381754	0.029103	0.142317

ENP-FACTOR ANALYSIS - ELEMENTARY PRINCIPALS

11/ 9/67 PAGE 37.

CORRELATION MATRIX ALL VARIABLES

	51	52	53	54	55	56
51	-0.155388	1.000000	-0.075007	-0.087669	-0.161069	-0.076963
52	-0.104105	0.507535	-0.023591	-0.076923	-0.184203	-0.107760
53	0.284035	-0.075007	1.000000	0.639460	0.182982	0.230792
54	0.277332	-0.067669	0.639460	1.000000	0.217007	0.245497
55	0.226497	-0.161069	0.182982	0.217008	1.000000	0.187281
56	0.206115	-0.075953	0.230792	0.245497	0.187281	1.000000
57	0.059130	0.015131	0.038902	0.065579	0.069047	0.085444
58	0.252945	-0.006468	0.073774	0.038543	0.138058	0.125231
59	0.009477	-0.051781	-0.073745	-0.067776	0.027417	-0.157183
60	0.056922	-0.035710	0.053908	0.071571	0.148108	0.091558
61	0.099870	-0.081252	0.076143	0.087038	0.178852	0.147383
62	0.333842	-0.009722	0.212262	0.174199	0.114971	0.226663

CORRELATION MATRIX ALL VARIABLES

	57	58	59	60	61	62
1	0.027525	0.153739	-0.259504	0.022301	0.114951	0.329985
2	0.020986	0.023004	-0.010240	0.021195	0.043722	0.051695
3	-0.001821	0.102544	-0.079891	0.028907	0.056982	0.142967
4	-0.005581	0.059320	-0.155139	0.036046	0.030774	0.190139
5	0.033374	0.070449	-0.209055	-0.083733	-0.022078	0.183691
6	0.015761	0.104065	-0.205907	0.044044	0.107705	0.322496
7	-0.052091	0.124203	-0.054250	-0.008555	0.045389	0.307577
8	-0.025802	0.093950	-0.059634	0.033067	0.092203	0.232792
9	-0.022267	0.044106	0.042803	0.000285	-0.033387	0.038137
10	-0.050566	0.016422	0.241873	-0.009090	-0.047899	-0.158256
11	-0.057466	0.302512	0.189308	0.095493	0.089592	0.148068
12	0.039204	0.300804	-0.030587	0.060155	0.069891	0.298071
13	0.023058	0.131469	0.001982	0.199685	0.183097	0.182024
14	-0.045498	0.135173	0.094466	0.157124	0.150547	0.116152
15	-0.052101	0.134635	0.109833	0.199587	0.174723	0.079100
16	0.028775	0.265947	0.123705	0.096973	0.113358	0.071284
17	0.013424	0.254534	0.111538	0.082070	0.021396	0.078704
18	-0.006174	0.169310	0.089941	0.057212	0.022476	0.056233
19	0.012012	0.173574	0.053345	0.039412	0.023117	0.055848
20	0.026364	0.212676	-0.010194	0.040162	0.065499	0.064887
21	-0.026753	0.157342	0.076790	0.002438	-0.000244	0.005146
22	0.032093	0.114413	0.113677	0.072441	0.050814	0.034817
23	0.057338	0.277592	0.005799	0.056680	0.100247	0.288154
24	0.023452	0.080967	0.124773	0.131542	0.095785	0.059221
25	-0.009708	0.025069	0.068693	0.019816	0.014508	-0.091679
26	-0.012303	-0.007659	0.094616	0.005109	0.003959	-0.124789
27	-0.041983	0.014310	0.034662	-0.029598	-0.011445	-0.011758
28	0.033719	-0.095064	-0.030913	-0.036483	-0.055798	-0.074057
29	0.017513	0.003521	-0.025028	-0.065221	-0.078223	-0.118716
30	-0.000291	0.023483	-0.047460	-0.071223	-0.060844	0.020829
31	0.032296	-0.031252	0.020290	-0.031367	-0.013467	-0.021810
32	0.003545	0.144959	0.121252	0.020750	-0.018732	0.092848
33	0.042143	0.145340	0.070561	0.053726	0.041316	0.003692
34	-0.023203	0.157941	0.119350	0.082276	0.067302	0.058231
35	0.014295	0.150167	0.051369	0.073816	0.074097	0.218747
36	-0.014709	-0.026487	0.007977	0.032601	0.010056	0.084527
37	-0.029419	-0.016320	-0.026250	-0.037260	-0.039398	0.017429
38	0.006599	0.079364	-0.150723	-0.001926	0.041276	0.232383
39	-0.051015	0.001675	0.081325	0.039541	0.032590	0.015334
40	-0.029399	0.215920	-0.035301	0.031803	0.107454	0.199523
41	-0.011564	0.311552	0.029032	0.006857	0.090655	0.245946
42	0.015444	0.162479	-0.169676	0.019609	0.052100	0.405032
43	0.044798	0.198326	-0.166433	0.054767	0.084395	0.240357
44	0.042344	0.130049	0.018000	0.214274	0.403277	0.158011
45	0.032836	0.240079	0.056090	0.139254	0.163715	0.187817
46	0.014756	0.290250	0.112225	0.108097	0.133502	0.229034
47	0.030444	0.132521	-0.145560	0.021810	0.091412	0.281754
48	-0.104833	-0.007540	-0.036756	0.008783	-0.008424	0.039103
49	0.053828	0.024146	-0.155095	0.041216	-0.006634	0.142317
50	0.059130	0.252945	0.009477	0.056922	0.099870	0.353842

EMP-FACTOR ANALYSIS ELEMENTARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	57	58	59	60	61	62
51	0.015121	-0.005458	-0.051761	-0.036710	-0.081252	-0.009722
52	0.040647	-0.034536	-0.143397	-0.071620	-0.080238	0.072154
53	0.028902	0.073774	-0.076745	0.053908	0.076143	0.212262
54	0.065379	0.038543	-0.067773	0.071571	0.087038	0.174199
55	0.049047	0.133053	0.027417	0.148108	0.178352	0.114971
56	0.035444	0.125231	-0.157183	0.091558	0.147383	0.226663
57	1.000000	0.041542	-0.068622	0.070464	0.058141	0.011582
58	0.041542	1.000000	0.180267	0.133809	0.191472	0.327529
59	-0.068622	0.180267	1.000000	0.075469	0.016572	-0.098222
60	0.070464	0.133809	0.075469	1.000000	0.673990	0.104570
61	0.072141	0.191472	0.016572	0.673990	1.000000	0.165434
62	0.011582	0.327529	-0.098222	0.104570	0.165434	1.000000

Secondary Principals

22 Variable Set

EMP*FACTOR ANALYSIS ELEMENTARY PRINCIPALS

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 23264.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
1	162456.4922	1325219.0761	6.9831	2.8636	2.8637
2	478108.7891	15038433.7500	20.5512	14.9688	14.9692
3	579790.0859	16459329.3750	24.9219	9.2948	9.2950
4	21731.2344	21731.2344	0.9341	0.2481	0.2481
5	21799.7825	25247.6536	0.9370	0.4552	0.4552
6	23037.3867	25317.0398	0.9902	0.3281	0.3281
7	18886.8364	19949.3340	0.8118	0.4455	0.4455
8	17971.2458	17971.2463	0.7725	0.4192	0.4192
9	21174.4993	21174.4998	0.9102	0.2859	0.2859
10	15486.5642	15486.5649	0.6657	0.4718	0.4718
11	285204.3398	5574428.0000	12.2593	9.4510	9.4512
12	144791.6758	1982520.0938	6.2238	6.8178	6.8179
13	1062040.7813	50781698.5000	45.6511	9.9396	9.9398
14	771.8356	771.8357	0.0332	0.1791	0.1791
15	94127.0801	388394.9805	4.0460	0.5700	0.5700
16	135516.8379	810637.3750	5.8251	0.9555	0.9555
17	66574.9873	206955.1914	2.8617	0.8406	0.8406
18	50230.2017	116438.5430	2.1591	0.5859	0.5859
19	388717.3711	10410191.5000	16.7087	12.9728	12.9730
20	71239.4551	236129.6699	3.0622	0.8792	0.8792
21	193937.0313	11951987.3750	8.3362	21.0773	21.0778
22	238491.7422	2683567.5625	10.2514	3.2031	3.2032

CORRELATION MATRIX ALL VARIABLES

1	2	3	4	5	6	7
1	1.000000	-0.371317	0.195859	0.037270	-0.010920	0.143795
2	-0.371317	1.000000	-0.063464	0.029776	0.076535	0.021978
3	-0.036608	-0.005037	0.001726	-0.076429	-0.055128	-0.032949
4	0.195859	1.000000	1.000000	0.051949	0.171758	0.167041
5	0.037270	-0.076429	0.051949	1.000000	0.321066	0.308955
6	-0.010920	0.076535	0.171758	0.321066	1.000000	0.236577
7	0.143795	0.021978	0.167041	0.308955	0.236577	1.000000
8	0.413307	-0.067334	0.169942	0.069553	0.117586	0.116031
9	0.160136	-0.028941	0.105664	0.090710	0.155137	0.393722
10	0.096557	-0.125294	0.042790	0.077710	0.083943	0.056948
11	-0.016870	-0.028057	-0.018944	-0.051268	-0.064002	0.003723
12	-0.038763	0.061480	-0.001034	-0.024391	-0.008043	-0.033038
13	-0.070013	0.048130	-0.021492	-0.086683	-0.069912	-0.049401
14	-0.130857	0.074468	0.003365	0.021034	0.006369	-0.050971
15	0.067662	-0.059112	0.016432	-0.053927	0.025804	0.035097
16	0.043308	0.039080	0.045442	0.001483	0.013780	0.037119
17	0.039410	-0.046496	-0.000812	0.010112	-0.036224	0.000452
18	0.038529	-0.054484	-0.068910	-0.040871	-0.044333	-0.126482
19	-0.000450	-0.008321	0.087572	-0.015815	0.019144	-0.022172
20	0.088710	-0.076675	0.007347	0.021558	0.073126	0.024343
21	-0.092431	0.088495	-0.122293	0.061816	-0.055400	-0.001396
22	0.039055	-0.080330	0.045447	-0.042985	0.096770	0.037848

8	9	10	11	12	13	14
1	0.413307	0.160136	-0.016870	-0.038763	-0.070013	-0.130857
2	-0.067334	-0.028941	-0.028057	0.061480	0.048130	0.074468
3	-0.102245	-0.048523	-0.018944	-0.001034	-0.021492	0.003365
4	0.169942	0.105664	-0.006044	0.006857	-0.051074	-0.135283
5	0.069553	0.090710	-0.051268	-0.024391	-0.086683	0.021034
6	0.117586	0.155137	-0.064002	-0.008043	-0.069912	0.006369
7	0.116031	0.393722	0.003723	-0.033038	-0.049401	-0.050971
8	1.000000	0.136667	-0.076017	-0.038640	-0.100346	-0.041055
9	0.136667	1.000000	0.052899	0.025147	0.035491	-0.042840
10	0.052241	0.087935	-0.054508	-0.048000	0.009591	-0.050108
11	-0.076017	0.052899	1.000000	0.656018	0.681997	0.006952
12	-0.038640	0.025147	0.656018	1.000000	0.489756	0.083305
13	-0.100346	0.035491	0.681997	0.489756	1.000000	0.114157
14	-0.041055	-0.042840	0.006952	0.083305	0.114157	1.000000
15	-0.055187	0.072709	0.059009	-0.024871	0.048617	-0.098794
16	0.018967	0.100938	0.030958	0.045523	0.039643	-0.017643
17	0.047685	-0.031925	-0.095035	-0.102990	-0.087322	-0.011563
18	0.035121	-0.010619	0.014386	-0.037903	0.000948	-0.008194
19	0.024116	0.107839	0.077944	0.042833	0.108520	-0.010006
20	0.078487	0.074216	0.086845	0.119759	0.082321	0.004900
21	0.046084	-0.071624	-0.116860	-0.068929	-0.099944	0.122932
22	-0.012066	0.078302	0.087448	0.040304	0.137394	-0.115181

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
1	0.067662	0.043308	0.039410	0.038529	-0.000450	0.008710	-0.092431
2	-0.059112	0.039080	-0.046497	-0.054484	-0.008321	-0.076675	0.088495
3	0.016432	0.045442	-0.000812	-0.068910	0.087572	0.007347	-0.109753
4	0.151101	0.066646	-0.026278	-0.033686	0.062099	0.122293	-0.254077
5	-0.053927	0.001423	0.010112	-0.040871	-0.015815	0.021558	0.061816
6	0.025804	0.013780	-0.036224	-0.044333	0.019144	0.073126	-0.055400
7	0.035097	0.037119	0.000452	-0.126482	-0.022172	0.024343	-0.001396
8	-0.055187	0.018967	0.047685	0.035121	0.024116	0.078487	0.046084
9	0.072709	0.100938	-0.031925	-0.010619	0.107839	0.074216	-0.071624
10	0.165091	0.148264	0.018104	-0.005156	0.147828	0.165784	-0.226909
11	0.059009	0.030958	-0.095035	0.014386	0.077944	0.086845	-0.116860
12	-0.024871	0.045523	-0.102990	-0.037903	0.042833	0.119759	-0.068929
13	0.048617	0.039643	-0.087322	0.000948	0.108520	0.082321	-0.099944
14	-0.098794	-0.017643	-0.011563	-0.008194	-0.010006	0.004900	0.122932
15	1.000000	0.138821	0.059915	0.014504	0.039091	0.078597	-0.321989
16	0.138821	1.000000	0.198140	0.012454	0.109052	0.026373	-0.098849
17	0.059914	0.198140	1.000000	0.066898	0.053800	0.047265	-0.001665
18	0.014504	0.012454	0.066898	1.000000	0.025936	-0.027784	0.001125
19	0.039091	0.109052	0.053800	0.025936	1.000000	0.086566	-0.149190
20	0.078597	0.026373	0.047265	-0.027784	0.086566	1.000000	-0.090075
21	-0.321989	-0.098849	-0.001665	0.001125	-0.149190	-0.090075	1.000000
22	0.423685	0.169003	0.143509	0.027846	0.274101	0.183462	-0.403032

22

1	0.039055
2	-0.080330
3	0.045447
4	0.267197
5	-0.042985
6	0.096770
7	0.037847
8	-0.012066
9	0.078302
10	0.369578
11	0.087448
12	0.040304
13	0.137394
14	-0.115181
15	0.423685
16	0.169003
17	0.143509
18	0.027846
19	0.274101
20	0.183461
21	-0.403032
22	1.000000

Secondary Principals

62 Variable Set

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 23264.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
1	13024.1975	101150.6436	0.5598	2.0086	2.0086
2	238491.7422	2683567.5625	10.2514	3.2031	3.2032
3	21940.5586	21940.5637	0.9431	0.2317	0.2317
4	14305.3438	14305.3917	0.6149	0.4866	0.4866
5	61087.8179	168516.6250	2.6258	0.5905	0.5905
6	71619.9727	301994.0742	3.0785	1.8718	1.8718
7	78181.8213	300250.5352	3.3606	1.2698	1.2699
8	12060.9775	12060.9811	0.5184	0.4997	0.4997
9	3856.4294	1394.0776	0.1658	0.1801	0.1801
10	147830.1387	947355.3906	6.3544	0.5860	0.5860
11	179093.1582	1429598.2656	7.6982	1.4792	1.4793
12	0.114915345 09	0.82597466E 12	4939.5524	3332.3781	3332.4497
13	41710.3579	117926.6777	1.7929	1.3618	1.3618
14	335244.8828	10602574.5000	14.4103	15.7508	15.7512
15	351977.0898	12403950.3750	15.1295	17.4434	17.4438
16	20551.4902	20551.4907	0.8834	0.3210	0.3210
17	18093.6011	18093.6025	0.7777	0.4158	0.4158
18	16804.4250	16804.4268	0.7223	0.4479	0.4479
19	15415.5153	15415.5172	0.6626	0.4728	0.4728
20	11990.5796	11990.5811	0.5154	0.4998	0.4998
21	16281.1571	16281.1581	0.6998	0.4583	0.4583
22	71265.2539	989852.1563	3.0633	5.7589	5.7590
23	62309.5435	209320.4160	2.6783	1.3506	1.3506
24	48112.9873	332149.5117	2.0681	3.1623	3.1624
25	181586.0703	6605830.8125	7.8053	14.9340	14.9343
26	193203.9414	9421858.1250	8.3047	18.3309	18.3313
27	42229.1514	126496.1641	1.8152	1.4637	1.4637
28	84322.5576	394946.5039	3.6245	1.9594	1.9594
29	67221.1982	211404.4883	2.8895	0.8591	0.8592
30	21995.8511	21995.8513	0.9455	0.2270	0.2271
31	79722.7578	5070738.1875	3.4268	14.3603	14.3606
32	52514.3540	160900.9512	2.2573	1.3494	1.3494
33	91980.1680	551529.1328	3.9537	2.8417	2.8418
34	23518.5740	49266.7412	1.0109	1.0468	1.0468
35	22732.2969	44758.8184	0.9771	0.9844	0.9845
36	523514.0156	12299554.2500	22.5029	4.7232	4.7233
37	277695.6250	6667473.4375	11.9365	12.0048	12.0051
38	28292.8445	54732.4268	1.2161	0.9347	0.9347
39	4489.7734	8531.2209	0.1930	0.5740	0.5740
40	52570.1240	205464.1172	2.2597	1.9302	1.9302
41	76084.6709	296281.5234	3.2704	1.4282	1.4282
42	12630.5732	24155.3125	0.5429	0.8623	0.8623
43	35648.0679	84889.9629	1.5323	1.1406	1.1406
44	12255.0780	23144.5820	0.5268	0.8470	0.8470
45	36704.6069	115714.9814	1.5777	1.5763	1.5763
46	21032.4199	27978.8774	0.9041	0.6207	0.6208

ALL VARIABLES

THE NUMBER OF OBSERVATIONS IS 23264.

VARIABLE	SUMS	SUMS OF SQUARES	MEAN	SIGMA(N)	SIGMA(N-1)
47	8135.6119	6197.1697	0.3497	0.3796	0.3796
48	9888.0996	7590.6867	0.4250	0.3816	0.3816
49	7709.6287	7709.6326	0.3314	0.4707	0.4707
50	18362950.0000	0.21897688E 11	789.3181	564.1216	564.1337
51	2186082.9063	0.20563270E 09	93.9672	3.0233	3.0233
52	1711461.9063	0.15909843E 09	73.5659	37.7728	37.7736
53	121481.7754	1215240.7031	5.2218	4.9969	4.9970
54	117767.9541	1248431.4219	5.0622	5.2950	5.2951
55	65257.2495	300558.9219	2.8050	2.2475	2.2475
56	90439.6104	875139.8750	3.8875	4.7439	4.7440
57	6402.8516	6402.8646	0.2752	0.4466	0.4466
58	260874.1758	3200172.3125	11.2135	3.4373	3.4373
59	38561.7261	73458.3564	1.6575	0.6404	0.6404
60	96948.7051	1112170.0313	4.1673	5.5172	5.5173
61	126438.1396	1731736.6875	5.4349	6.7007	6.7009
62	41469.0430	134499.1270	1.7825	1.6137	1.6137

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
1	1.000000						
2	-0.069726	1.000000					
3	0.015688	0.022057	1.000000				
4	-0.062663	0.026926	0.241876	1.000000			
5	-0.186307	0.292235	0.058535	0.146846	1.000000		
6	0.076928	0.513522	-0.016780	0.249803	0.151785	1.000000	
7	-0.049765	0.334435	0.024658	0.260098	0.151038	0.387458	1.000000
8	0.000515	0.337572	-0.024747	0.182053	0.194592	0.388971	0.263813
9	0.064861	-0.043237	-0.065568	-0.037824	0.048476	-0.014818	0.084173
10	0.006196	-0.026659	0.057526	0.042683	0.040910	-0.030367	0.048848
11	-0.002506	0.209064	0.116265	0.223253	0.044575	0.129748	0.147991
12	0.005056	0.537180	0.058634	0.265889	0.174729	0.455367	0.357174
13	-0.014455	0.389421	-0.038005	0.183071	0.159538	0.359094	0.299929
14	-0.000044	0.145404	0.008500	0.047545	0.050784	0.028455	0.133017
15	0.165369	0.065308	-0.001942	0.037088	-0.051918	0.014960	-0.053074
16	0.003381	0.234141	0.120792	0.113462	0.136277	0.048752	0.064706
17	0.068618	-0.008123	0.166370	0.124891	-0.069209	-0.172923	0.016145
18	0.056599	-0.097904	0.255879	0.172608	-0.129127	-0.263922	-0.044605
19	0.026262	-0.001437	0.239307	0.192838	-0.029287	-0.173686	0.009321
20	0.025383	0.370543	-0.011120	0.228248	0.076107	0.275639	0.290283
21	0.031598	0.167976	0.101995	0.090884	-0.054812	-0.008715	0.069583
22	0.033441	0.049135	-0.093641	0.021878	0.004079	0.013360	0.022385
23	-0.070381	0.551276	0.042643	0.264275	0.188435	0.449261	0.302485
24	-0.030509	0.215254	-0.063335	0.091422	0.124871	0.132089	0.134129
25	0.006544	-0.042793	-0.023002	-0.118960	-0.105440	-0.110141	-0.185342
26	-0.036727	-0.154077	0.025844	-0.124495	-0.015611	-0.187688	-0.239906
27	0.041803	-0.140601	0.079345	-0.022995	-0.141621	-0.006791	0.024739
28	0.014150	-0.155868	-0.019169	-0.019913	0.046248	-0.115434	-0.118731
29	-0.028728	-0.086536	-0.026958	-0.035255	-0.069717	-0.080645	-0.078783
30	-0.095950	0.144874	0.032756	0.034409	0.197257	0.089640	0.064316
31	0.048245	-0.065180	-0.013981	0.047260	-0.066478	0.018754	0.000722
32	0.026065	-0.184303	0.015847	-0.103613	-0.038978	-0.275109	-0.150830
33	0.050106	-0.262754	0.018506	-0.090032	-0.106099	-0.272223	-0.179050
34	0.043509	-0.033315	-0.032930	0.081313	0.019256	-0.063930	0.036040
35	-0.015492	0.348637	-0.037178	0.143463	0.138241	0.320235	0.258761
36	0.161160	-0.193019	-0.093361	-0.040635	-0.236532	0.036567	0.041140
37	-0.094941	-0.107354	0.016111	-0.059109	0.055117	-0.201559	-0.119812
38	-0.124004	0.377188	-0.109984	0.102399	0.275904	0.251988	0.094967
39	0.202923	0.069651	0.043462	-0.042803	-0.222959	0.205059	0.043015
40	-0.030766	0.541865	0.031997	0.204293	0.238803	0.517644	0.399670
41	-0.029309	0.378086	0.078697	0.190009	0.140784	0.283903	0.300981
42	-0.037722	0.429499	-0.025446	0.070797	0.240664	0.349469	0.206430
43	-0.058235	0.531455	-0.046925	0.086568	0.313919	0.343415	0.301515
44	-0.008990	0.399140	-0.025573	0.027347	0.087223	0.380774	0.113366
45	-0.022813	0.630579	0.038904	0.268053	0.197598	0.554925	0.337615
46	0.090509	0.477137	0.067820	0.194146	0.064414	0.445976	0.343783
47	0.021308	0.559544	-0.002464	0.149354	0.256348	0.457949	0.313285
48	0.045529	0.281516	-0.031934	0.091783	0.280728	0.254452	0.119447
49	-0.105631	0.207140	0.000677	0.116851	0.224053	0.236300	0.151857
50	0.071687	0.561804	0.023765	0.216204	0.105642	0.610970	0.337120

CORRELATION MATRIX ALL VARIABLES

	1	2	3	4	5	6	7
51	-0.194161	-0.051509	0.006523	0.072944	0.277478	-0.119326	0.116636
52	-0.432396	0.068207	0.056052	0.163377	0.264587	-0.032772	0.316436
53	-0.103760	0.228710	0.002798	0.014133	0.005001	0.207096	0.085872
54	0.011619	0.173921	-0.008481	0.080975	0.049074	0.145719	0.052211
55	0.055956	0.170357	0.062947	0.031671	-0.094916	0.192329	-0.076510
56	-0.122654	0.427616	0.020177	0.200227	0.220888	0.307790	0.113054
57	-0.083117	0.006793	-0.141754	-0.159352	0.105837	0.000862	-0.006254
58	0.091220	0.452416	0.101944	0.252402	0.071335	0.306055	0.334066
59	0.105893	0.038176	0.003635	0.064353	0.034270	0.036145	0.141281
60	0.030426	0.180103	-0.107105	0.059588	0.046052	0.143957	0.042686
61	-0.005516	0.331059	-0.009244	0.107734	0.066443	0.252897	0.069060
62	-0.044524	0.546600	-0.107840	0.101165	0.290484	0.440037	0.308440

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	8	9	10	11	12	13	14
1	0.000515	0.064861	0.006196	-0.002506	0.005056	-0.014455	-0.000044
2	0.337572	-0.043237	-0.026659	0.209064	0.537180	0.389421	0.145404
3	-0.024747	-0.065568	0.057526	0.116265	0.058634	-0.038005	0.008500
4	0.182053	-0.037824	0.042683	0.223253	0.265889	0.183071	0.047545
5	0.194592	0.048476	0.040910	0.044575	0.174729	0.159538	0.050784
6	0.388971	-0.014818	-0.030367	0.129748	0.455367	0.359094	0.028455
7	0.263813	0.084173	0.048848	0.147991	0.357174	0.299929	0.133017
8	1.000000	-0.049467	-0.057947	0.169535	0.330024	0.251419	0.077781
9	-0.049467	1.000000	0.095067	-0.115904	-0.042725	0.029633	0.030613
10	-0.057947	0.095067	1.000000	0.129138	0.131178	-0.063924	-0.051552
11	0.169535	-0.115904	0.129138	1.000000	0.295943	0.080309	0.007883
12	0.330024	-0.042725	0.131178	0.295943	1.000000	0.354117	0.142145
13	0.029633	0.080309	-0.063924	0.080309	0.354117	1.000000	0.540686
14	0.077781	0.030613	-0.051552	0.007883	0.142145	0.540686	1.000000
15	0.029780	-0.014141	-0.059362	-0.088575	0.034895	0.471513	0.526292
16	0.082996	-0.018507	0.048758	0.204599	0.230280	0.141637	0.095665
17	-0.050623	0.019240	0.159315	0.301824	0.161537	-0.041386	0.066073
18	-0.092746	-0.039204	0.110259	0.375953	0.082949	-0.103715	0.074718
19	-0.036807	-0.024693	0.079407	0.370523	0.146376	-0.034500	0.091628
20	0.209723	0.030816	0.040809	0.191617	0.374218	0.319217	0.107521
21	0.029712	-0.024035	0.041259	0.340751	0.232115	0.084809	0.079802
22	0.070528	-0.005408	-0.022358	-0.073959	0.057008	0.324028	0.344250
23	0.271004	-0.041548	0.016250	0.277000	0.560676	0.418353	0.150184
24	0.226460	-0.069777	-0.028018	0.098714	0.164290	0.437069	0.288752
25	-0.063891	-0.046580	-0.033571	-0.058937	-0.091161	-0.003772	-0.028908
26	-0.124275	0.058011	-0.024762	-0.090538	-0.136125	-0.119120	-0.084670
27	-0.004269	-0.023052	-0.000799	0.120875	0.041459	-0.002162	-0.005190
28	-0.074054	0.044692	-0.030253	-0.006627	-0.071853	-0.081116	0.034879
29	-0.093192	0.120400	-0.104561	-0.099132	-0.098909	-0.078923	-0.052236
30	0.104499	0.030983	0.010373	0.077200	0.107929	0.056396	-0.004757
31	-0.056316	0.150476	0.038184	-0.000440	-0.036972	0.018162	0.084585
32	-0.131658	0.041725	0.067243	-0.204907	-0.164499	-0.197626	-0.055554
33	-0.179492	0.105539	0.065986	-0.258113	-0.205507	-0.207624	-0.062603
34	-0.017980	-0.008160	0.062654	0.021785	0.040699	0.052131	0.054135
35	0.264259	0.006310	0.033380	0.187991	0.351509	0.369962	0.133583
36	-0.065645	-0.001842	-0.032042	-0.118357	0.007143	0.047062	0.005294
37	-0.152925	0.028828	-0.011279	-0.074212	-0.157586	-0.150572	-0.118219
38	0.183912	0.028495	-0.041678	0.028238	0.246253	0.197794	0.077229
39	0.025493	0.022215	-0.128449	0.024412	0.070143	0.060946	0.050849
40	0.287418	-0.031284	-0.002384	0.186306	0.509422	0.397061	0.075010
41	0.255295	0.024977	-0.053200	0.123843	0.380335	0.283303	0.070812
42	0.208315	0.033406	0.020429	0.125928	0.337845	0.246740	0.059192
43	0.261225	-0.054494	-0.005934	0.096887	0.428792	0.381372	0.135071
44	0.227170	-0.001262	-0.060878	-0.019671	0.251281	0.310563	0.088975
45	0.290713	-0.025093	0.055566	0.358760	0.642939	0.432289	0.108150
46	0.234167	0.019620	0.012730	0.290782	0.563956	0.349518	0.089163
47	0.282121	0.020758	0.043349	0.113608	0.484259	0.326297	0.132040
48	0.189847	-0.029395	-0.055514	0.020626	0.220894	0.221049	0.021576
49	0.083240	-0.002408	-0.012917	-0.048011	0.145050	0.167890	0.043246
50	0.288179	-0.019275	-0.009690	0.255988	0.652520	0.403391	0.085892

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	8	9	10	11	12	13	14
51	-0.013873	0.125018	0.106716	0.003037	0.018557	-0.039641	-0.004908
52	0.048511	0.006395	0.032246	0.131616	0.149216	0.083120	0.018928
53	0.043938	-0.045288	-0.086395	-0.001821	0.094125	0.072835	-0.029086
54	0.055965	-0.021417	-0.059247	-0.078040	0.019467	-0.017470	-0.063858
55	0.110250	-0.101547	-0.017283	0.104393	0.163220	0.121114	0.035710
56	0.286179	-0.044058	-0.098213	0.174672	0.342844	0.229797	0.126345
57	0.016555	0.121715	-0.051072	-0.203389	-0.079177	-0.012165	-0.065452
58	0.229205	0.044085	0.055158	0.391808	0.526702	0.323299	0.129044
59	0.058714	0.043853	0.016310	0.140377	0.101855	0.021179	0.074952
60	0.084169	0.005926	0.051492	0.093768	0.166992	0.261908	0.162576
61	0.186251	-0.060263	-0.042199	0.051715	0.236275	0.320050	0.165758
62	0.301630	0.010217	0.014632	0.114971	0.446071	0.441838	0.153502

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
1	0.165369	0.003381	0.068618	0.056599	0.026262	0.025383	0.031598
2	0.065308	0.234141	-0.008123	-0.097904	-0.001437	0.370543	0.167976
3	-0.001942	0.120792	0.166370	0.255879	0.239307	-0.011120	0.101995
4	0.037088	0.113462	0.124891	0.172608	0.192838	0.228248	0.090884
5	-0.051918	0.136277	-0.069209	-0.129127	-0.029287	0.076107	-0.054812
6	0.014960	0.048752	-0.172923	-0.263922	-0.173686	0.275639	-0.008715
7	-0.053074	0.064706	0.016145	-0.044605	0.009321	0.290283	0.069583
8	0.029780	0.082996	-0.050623	-0.092746	-0.036807	0.209723	0.029712
9	-0.014141	-0.018507	0.019240	-0.039204	-0.024693	0.030816	-0.024035
10	-0.059362	0.048758	0.159315	0.110259	0.079407	0.040809	0.021259
11	-0.088575	0.204599	0.301824	0.375953	0.370523	0.191617	0.340751
12	0.034895	0.230280	0.161537	0.082949	0.146376	0.374218	0.232115
13	0.471513	0.141637	-0.041386	-0.103715	-0.034500	0.319217	0.084809
14	0.526292	0.095665	0.066073	0.074718	0.091528	0.107521	0.079802
15	1.000000	0.031859	0.003635	0.038699	0.031671	0.017273	0.018815
16	0.031859	1.000000	0.285273	0.218767	0.241511	0.179422	0.168046
17	0.003635	0.285273	1.000000	0.712838	0.607821	0.156082	0.383379
18	0.038699	0.218767	0.712838	1.000000	0.835875	0.071194	0.406289
19	0.031671	0.241511	0.607821	0.835875	1.000000	0.145701	0.372927
20	0.017273	0.179422	0.156082	0.071194	0.145701	1.000000	0.173150
21	0.018815	0.168046	0.383379	0.406289	0.372927	0.173150	1.000000
22	0.271184	-0.056686	-0.039241	-0.022627	-0.004681	0.027226	0.028558
23	0.030466	0.283124	0.063307	-0.029961	0.047756	0.408120	0.177384
24	0.287096	0.072565	-0.002654	0.004290	0.035715	0.092402	0.063466
25	0.004650	-0.059258	0.039989	0.043052	-0.003299	-0.128923	0.054610
26	-0.038807	-0.062965	0.080114	0.086127	0.064893	-0.162466	-0.003338
27	0.013889	0.050100	0.069668	0.077819	0.053856	0.046097	0.114661
28	0.047893	-0.041358	0.062004	0.064384	0.057522	-0.087858	0.024106
29	-0.047760	-0.100618	-0.151205	-0.149612	-0.117329	-0.096975	-0.086442
30	-0.073936	0.126244	0.032453	0.012808	0.122547	0.071935	0.039853
31	-0.008259	0.025510	0.074075	0.091941	0.089877	-0.021660	-0.058183
32	0.009377	0.045218	0.110448	0.133146	0.118984	-0.118622	-0.097881
33	-0.050822	-0.072169	0.083064	0.128326	0.099788	-0.147529	-0.125373
34	0.006930	0.117117	0.185410	0.225412	0.188437	0.095817	0.143240
35	0.069206	0.087921	0.067898	-0.015420	0.034091	0.349321	0.127520
36	0.105297	-0.164189	-0.111357	-0.123222	-0.167135	-0.046291	-0.117877
37	-0.043647	-0.000626	0.068884	0.012093	0.021158	-0.127934	-0.006376
38	0.019688	0.033400	-0.140152	-0.175724	-0.105614	0.143180	-0.026269
39	0.102654	-0.097934	0.006176	0.048521	0.033811	-0.013306	0.089321
40	0.006709	0.214603	-0.034899	-0.135598	-0.057446	0.404191	0.135648
41	0.026405	0.203189	0.118996	0.074808	0.097345	0.323175	0.173922
42	0.011185	0.059222	-0.020808	-0.099761	-0.075821	0.195605	0.018270
43	0.028196	0.212337	-0.017781	-0.133139	-0.041200	0.319719	0.130442
44	0.117952	0.033356	-0.111478	-0.171128	-0.153383	0.184491	0.020124
45	0.040754	0.205832	0.149735	0.100712	0.145877	0.425792	0.257983
46	0.062542	0.212205	0.181571	0.137040	0.169133	0.363276	0.266021
47	-0.012741	0.193400	-0.017964	-0.101491	-0.028253	0.298919	0.103425
48	0.048818	0.034291	-0.055890	-0.070104	-0.032287	0.126415	0.010001
49	0.012964	0.060855	-0.137354	-0.207791	-0.155334	0.051382	-0.109163
50	0.079837	0.126784	0.102270	0.047842	0.084696	0.364071	0.199127

CORRELATION MATRIX ALL VARIABLES

	15	16	17	18	19	20	21
51	-0.100783	0.050852	-0.031380	-0.034186	0.026778	0.004464	-0.094835
52	-0.156543	0.140929	0.061605	0.033799	0.139326	0.056248	0.073935
53	-0.001601	-0.002655	-0.118990	-0.149036	-0.102554	0.035466	0.021435
54	0.009187	-0.055049	-0.092281	-0.125155	-0.087263	0.040789	-0.063963
55	0.050528	0.083965	0.050390	0.031643	0.022576	0.057177	0.134288
56	0.005357	0.135206	-0.027084	-0.078239	-0.010898	0.168675	0.112961
57	-0.034754	-0.052367	-0.173435	-0.257940	-0.183460	-0.008022	-0.178797
58	0.023675	0.413430	0.336716	0.310484	0.360999	0.422081	0.381802
59	0.057309	0.034678	0.135890	0.196110	0.194330	0.136441	0.069600
60	0.142113	0.083413	0.079306	0.007922	0.013772	0.139725	0.035259
61	0.170007	0.083655	-0.062408	-0.084480	-0.062983	0.127964	0.069744
62	0.090384	0.171321	-0.020905	-0.175824	-0.108111	0.328393	0.078052

CORRELATION MATRIX ALL VARIABLES

	22	23	24	25	26	27	28
1	0.033441	-0.070381	-0.030509	0.006544	-0.036727	0.041803	0.014150
2	0.049135	0.551276	0.215254	-0.042793	-0.154077	-0.140601	-0.155868
3	-0.093641	0.042439	-0.063335	-0.023002	0.025844	0.079345	-0.019169
4	0.021878	0.264275	0.091422	-0.118960	-0.124495	-0.022995	-0.019913
5	0.004079	0.188435	0.124871	-0.105440	-0.015611	-0.141621	0.046248
6	0.013360	0.449261	0.132089	-0.110141	-0.187688	-0.006791	-0.115434
7	0.022385	0.302485	0.134129	-0.185342	-0.239906	0.024739	-0.118731
8	0.070528	0.271004	0.226460	-0.063891	-0.124275	-0.004269	-0.074054
9	-0.005408	-0.041548	-0.069777	-0.046580	0.058011	-0.023052	0.044692
10	-0.022358	0.016250	-0.028018	-0.033571	-0.024762	-0.000799	-0.030253
11	-0.073959	0.277000	0.098714	-0.058937	-0.090538	0.120875	-0.006627
12	0.057008	0.560676	0.164290	-0.091161	-0.136125	0.041459	-0.071853
13	0.324028	0.418353	0.437069	-0.003772	-0.119120	-0.002162	-0.081116
14	0.344250	0.50184	0.288752	-0.028908	-0.084670	-0.005190	0.034879
15	0.271184	0.030466	0.287096	0.004650	-0.038807	0.013889	0.047893
16	-0.056686	0.283124	0.072565	-0.059258	-0.062965	0.050100	-0.041358
17	-0.039241	0.063307	-0.002654	0.039989	0.080114	0.069668	0.062004
18	-0.022627	-0.029961	0.004290	0.043052	0.086127	0.077819	0.064384
19	-0.004681	0.047756	0.035715	-0.003299	0.064893	0.053856	0.057522
20	0.027226	0.408120	0.092402	-0.128923	-0.162466	0.046097	-0.087858
21	0.028558	0.177384	0.063466	0.054610	-0.003338	0.114661	0.024106
22	1.000000	0.013627	0.478259	0.047787	0.001576	-0.001064	0.100371
23	0.013627	1.000000	0.215372	-0.055304	-0.105910	0.016887	-0.144241
24	0.478259	0.215372	1.000000	-0.066333	-0.094895	-0.009213	-0.118838
25	0.047787	-0.055304	-0.066333	1.000000	0.598854	-0.103598	-0.017320
26	0.001576	0.105910	0.094895	0.598854	1.000000	-0.093246	0.063938
27	-0.001064	0.103598	-0.009213	-0.103598	-0.093246	1.000000	0.088569
28	0.100371	-0.144241	-0.118838	-0.017320	0.063938	0.088569	1.000000
29	-0.044389	-0.095684	-0.073675	0.031133	0.082102	-0.002265	0.175307
30	-0.103883	0.100300	0.066056	-0.099948	-0.018783	0.031824	-0.046848
31	0.014766	-0.023364	-0.024074	-0.024642	-0.020463	0.066620	0.021145
32	0.013882	-0.154943	-0.098317	0.067055	0.093192	-0.094414	0.025741
33	0.056263	-0.216924	-0.103104	0.147611	0.192790	-0.057764	0.064474
34	0.094697	0.090060	0.005425	0.131483	0.095359	-0.003947	0.014812
35	0.135755	0.338232	0.168156	0.011700	-0.096786	0.006671	-0.107256
36	0.041801	-0.065316	-0.025572	0.031334	-0.097289	0.028405	-0.000404
37	-0.085959	-0.135480	0.088515	-0.039238	0.048271	-0.018084	0.039760
38	0.057777	0.249488	0.112261	0.010151	-0.009282	-0.057465	0.005345
39	0.028359	0.023701	-0.017614	0.065590	-0.015367	0.027392	-0.057363
40	0.050610	0.569728	0.211113	-0.151842	-0.166825	-0.004222	-0.085793
41	0.002882	0.383068	0.113695	-0.068977	-0.072252	0.058063	-0.026911
42	0.054659	0.333063	0.115249	-0.068713	-0.069044	-0.086971	-0.038200
43	0.094699	0.448075	0.200626	-0.099076	-0.121218	-0.088738	-0.094330
44	0.071927	0.298502	0.138482	0.029999	-0.030516	-0.045922	-0.056289
45	0.042321	0.573193	0.240784	-0.060246	-0.125438	-0.033231	-0.122943
46	0.026561	0.490419	0.163916	-0.027850	-0.162158	0.084414	-0.097859
47	0.094683	0.469140	0.172688	-0.115912	-0.140601	-0.128740	-0.043442
48	0.015204	0.193717	0.142010	-0.041052	-0.100810	-0.054196	-0.093678
49	0.001639	0.121676	0.074169	-0.129964	-0.02071	0.013993	-0.027255
50	0.056421	0.538853	0.216912	-0.052797	-0.158016	-0.003352	-0.111868

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	22	23	24	25	26	27	28
51	-0.058354	0.037581	-0.035484	-0.186283	-0.074881	0.056149	0.012955
52	-0.021879	0.185852	0.092075	-0.256583	-0.131500	0.083163	0.021521
53	0.006111	0.209173	0.108064	0.133547	0.090918	-0.021478	-0.172807
54	-0.005452	0.059984	0.030386	0.034649	0.029023	-0.059145	-0.102389
55	-0.024361	0.122105	0.056954	0.062330	0.031944	0.009725	-0.055452
56	0.075826	0.368938	0.217564	0.036931	-0.034117	-0.114627	-0.027390
57	-0.009992	0.035076	-0.013620	0.015369	0.007204	-0.018363	0.012093
58	0.048923	0.462651	0.203458	-0.102201	-0.166634	0.055805	-0.130826
59	0.050326	0.052391	0.065636	-0.046558	-0.084605	0.007017	0.013207
60	0.165721	0.149096	0.141811	0.111283	0.040847	0.000430	0.024260
61	0.144023	0.258853	0.176866	0.110150	0.015302	0.027894	-0.069737
62	0.103580	0.483939	0.271195	-0.086035	-0.135010	-0.031371	-0.086968

CORRELATION MATRIX ALL VARIABLES

	29	30	31	32	33	34	35
1	-0.028728	-0.095950	0.048245	0.026065	0.050106	0.043509	-0.015492
2	-0.086536	0.144874	-0.065180	-0.184303	-0.262754	-0.033315	0.348637
3	-0.026958	0.032755	-0.013981	0.015847	0.018506	-0.032930	-0.037178
4	-0.035255	0.034409	0.047260	-0.103613	-0.090032	0.081313	0.143463
5	-0.069717	0.197257	-0.066478	-0.038978	-0.106099	0.019256	0.138241
6	-0.080645	0.089640	0.018754	-0.275109	-0.272223	-0.063930	0.320235
7	-0.078783	0.064316	0.000722	-0.150830	-0.179050	0.036040	0.258761
8	-0.093192	0.104499	-0.056316	-0.131658	-0.179492	-0.017979	0.264259
9	0.120400	0.030983	0.150476	0.041725	0.105539	-0.008160	0.006310
10	-0.104561	0.010373	0.038184	0.067243	0.065987	0.062654	0.033380
11	-0.099132	0.077200	-0.000440	-0.204907	-0.258113	0.021785	0.187991
12	-0.098909	0.107929	-0.036972	-0.164499	-0.205507	0.040699	0.351509
13	-0.078923	0.056396	0.018162	-0.197626	-0.207624	0.052131	0.369962
14	-0.052236	-0.004757	0.084585	-0.055554	-0.062603	0.054135	0.133583
15	-0.047760	-0.073936	-0.008259	0.009377	-0.050822	0.006930	0.069206
16	-0.100617	0.126244	0.025510	0.045218	-0.072169	0.117117	0.087921
17	-0.151205	0.032453	0.074075	0.110448	0.083064	0.185410	0.067898
18	-0.149612	0.012808	0.091941	0.133146	0.128326	0.225412	-0.015420
19	-0.117329	0.122547	0.089877	0.118984	0.099788	0.188437	0.034091
20	-0.096975	0.071935	-0.021660	-0.118622	-0.147529	0.095817	0.349321
21	-0.086442	0.039853	-0.058183	-0.097881	-0.125373	0.143240	0.127520
22	-0.044389	-0.103882	0.014766	0.013882	0.056263	0.094697	0.135755
23	-0.095684	0.100300	-0.023364	-0.154943	-0.216924	0.090060	0.338232
24	-0.073675	0.066056	-0.024074	-0.098317	-0.103104	0.005425	0.168156
25	0.031133	-0.099948	-0.024642	0.067055	0.147611	0.131483	0.011700
26	0.082102	-0.018784	-0.020463	0.093192	0.192790	0.095359	-0.096786
27	0.002265	0.031824	0.066620	-0.094414	-0.057764	-0.003947	0.006671
28	0.175307	-0.046848	0.021145	0.025741	0.064474	0.014812	-0.017256
29	1.000000	-0.074920	0.074623	-0.049759	0.013181	-0.108464	-0.126427
30	-0.074920	1.000000	-0.025034	-0.034220	-0.053459	-0.042200	0.095883
31	0.074623	-0.025034	1.000000	-0.027192	0.048474	-0.006731	-0.018193
32	-0.049759	-0.034220	-0.027192	1.000000	0.543354	0.257754	-0.140930
33	0.013181	-0.053459	0.048474	0.543354	1.000000	0.234307	-0.135576
34	-0.108464	-0.042200	-0.006731	0.257754	0.234307	1.000000	0.044137
35	-0.126427	0.095883	-0.018193	-0.140930	-0.135576	0.044137	1.000000
36	0.025581	-0.201729	-0.037037	0.022836	0.026720	-0.043443	-0.015962
37	0.076602	0.000117	-0.083686	0.032892	0.040900	0.000622	-0.152965
38	0.005973	0.101961	-0.020124	-0.111410	-0.132383	-0.049875	0.091648
39	-0.036882	-0.066394	0.000325	-0.095503	-0.023862	0.046552	0.036918
40	-0.047095	0.069758	-0.057552	-0.206067	-0.231877	0.018793	0.351032
41	-0.013051	0.065534	-0.006149	-0.140144	-0.169485	0.086539	0.219570
42	-0.053935	0.082491	-0.032199	-0.070693	-0.084394	-0.018991	0.206771
43	-0.046848	0.161164	-0.089576	-0.078413	-0.182462	0.021214	0.270944
44	-0.115771	0.045798	-0.004444	-0.157124	-0.061089	-0.035218	0.177159
45	-0.109809	0.114931	-0.007076	-0.223598	-0.263396	0.011342	0.403014
46	-0.064247	0.048047	-0.062964	-0.196982	-0.201624	0.105397	0.357937
47	-0.146176	0.156357	-0.006134	-0.131134	-0.138068	0.002941	0.298803
48	-0.023550	0.064638	-0.058122	-0.096338	-0.139021	0.011505	0.208890
49	-0.067465	0.101296	-0.000066	-0.082266	-0.045442	-0.043129	0.110337
50	-0.073953	0.015685	-0.040054	-0.194405	-0.194245	0.015906	0.363491

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

1/30/68 PAGE 31.

CORRELATION MATRIX ALL VARIABLES

	29	30	31	32	33	34	35
51	-0.049171	0.144744	0.031938	0.005177	-0.032096	-0.026714	0.029878
52	-0.047262	0.184445	-0.066363	-0.107482	-0.159909	-0.044666	0.092602
53	0.058399	-0.028708	-0.049873	-0.126710	-0.092621	0.022312	0.076183
54	-0.007439	-0.049048	0.006150	-0.035300	0.048032	-0.013417	0.023680
55	-0.010042	-0.057349	0.048883	-0.071910	-0.052983	-0.038518	0.110586
56	0.035019	0.108342	-0.077724	-0.184520	-0.178089	-0.017218	0.236129
57	0.000793	0.077405	0.064127	0.041249	-0.004446	-0.089999	0.013734
58	-0.097187	0.086413	0.001253	-0.118923	-0.189949	0.190098	0.350153
59	-0.006436	0.036734	0.043246	-0.027056	-0.009602	0.021708	0.106677
60	-0.008266	-0.011748	0.089285	-0.069500	0.006573	0.064470	0.254166
61	-0.024215	-0.011552	0.018241	-0.132544	-0.082175	0.039111	0.200445
62	-0.082409	0.090828	-0.079892	-0.103229	-0.192110	0.044285	0.414222

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	36	37	38	39	40	41	42
1	0.161160	-0.094941	-0.124004	0.202923	-0.030766	-0.0029309	-0.037722
2	-0.193019	-0.107354	0.377188	0.069651	0.541865	0.378086	0.429499
3	-0.093361	0.016111	-0.109984	0.043462	0.031997	0.078697	-0.025446
4	-0.040635	-0.059109	0.102399	-0.042803	0.204292	0.190009	0.070797
5	-0.236532	0.055117	0.275904	-0.022959	0.238803	0.140784	0.240663
6	0.036567	-0.201559	0.251988	0.205059	0.517644	0.283903	0.349469
7	0.041140	-0.119812	0.094967	0.043015	0.399670	0.300981	0.206430
8	-0.065644	-0.152925	0.183912	0.025493	0.287418	0.255295	0.208315
9	-0.001842	0.026828	0.028495	0.022215	-0.031284	0.024977	0.033406
10	-0.032042	-0.011279	-0.041678	-0.128449	-0.002384	-0.053200	0.020429
11	-0.118357	-0.074212	0.028238	0.024412	0.186306	0.123843	0.125928
12	0.007143	-0.157586	0.246253	0.070143	0.509422	0.380335	0.337845
13	0.047062	-0.150572	0.197794	0.060946	0.397061	0.283303	0.246740
14	0.005294	-0.118219	0.077229	0.050849	0.075010	0.070812	0.059192
15	0.105297	-0.043647	0.019688	0.102654	0.006709	0.026405	0.011185
16	-0.164189	-0.000626	0.033400	-0.097934	-0.0214603	0.203189	0.059222
17	-0.111357	0.068884	-0.140152	0.0046176	-0.034899	0.118996	-0.020808
18	-0.123222	0.012093	-0.175724	0.048521	-0.135598	0.074808	-0.099761
19	-0.167135	0.021158	-0.105614	0.033811	-0.057446	0.097345	-0.075821
20	-0.046291	-0.127934	0.143180	-0.013306	0.404191	0.323175	0.195605
21	-0.117877	-0.006376	-0.026269	0.089321	0.135648	0.173922	0.18270
22	0.041801	-0.085959	0.057777	0.028359	0.050610	0.002882	0.054659
23	-0.065316	-0.135480	0.249488	0.023701	0.569728	0.383068	0.333063
24	-0.025572	-0.088515	0.112261	-0.017614	0.211113	0.113695	0.115249
25	0.031334	-0.039238	0.010151	0.065590	-0.151842	-0.068977	-0.068713
26	-0.097289	0.048271	-0.009282	-0.015387	-0.166825	-0.072252	-0.069044
27	0.028405	-0.018084	-0.057465	0.027392	-0.004222	0.058063	-0.086971
28	-0.000404	0.039760	0.005345	-0.057363	-0.085793	-0.026911	-0.038200
29	0.025581	0.076602	0.005973	-0.036882	-0.047095	-0.013051	-0.053935
30	-0.201728	0.000117	0.101961	-0.066394	0.069758	0.065534	0.082491
31	-0.037037	-0.083686	-0.020124	0.000325	-0.057552	-0.006149	-0.032199
32	0.022836	0.032892	-0.111410	-0.095503	-0.206067	-0.140144	-0.070693
33	0.026720	0.040900	-0.132383	-0.023862	-0.231877	-0.169485	-0.084394
34	-0.043443	0.000622	-0.049875	0.046552	0.018793	0.086539	-0.018991
35	-0.015962	-0.152965	0.091648	0.036918	0.351032	0.219570	0.206771
36	1.000000	-0.132620	-0.121380	0.079790	-0.088240	-0.053007	-0.061954
37	-0.132620	1.000000	-0.091199	-0.064570	-0.111100	-0.017215	-0.062857
38	-0.121380	-0.091199	1.000000	-0.044474	0.271189	0.159321	0.168785
39	0.079790	-0.064570	-0.044474	1.000000	0.001245	0.009774	0.090724
40	-0.088240	-0.111100	0.271189	0.001245	1.000000	0.521795	0.414517
41	-0.017215	0.017215	0.159321	0.009774	0.521795	1.000000	0.241569
42	-0.061954	-0.062857	0.168785	0.090724	0.414517	0.241569	1.000000
43	-0.130068	-0.099334	0.353749	0.015085	0.517398	0.310806	0.362728
44	-0.009719	-0.090557	0.169036	0.100578	0.236377	0.183101	0.276237
45	-0.032992	-0.140732	0.262083	0.088949	0.574071	0.373658	0.385728
46	0.041728	-0.098390	0.139092	0.175909	0.452799	0.350005	0.290537
47	-0.169512	-0.134192	0.301664	0.039329	0.525556	0.275226	0.387240
48	0.059345	-0.124139	0.217320	0.115613	0.228625	0.121897	0.154692
49	-0.007950	0.006019	0.211171	-0.076237	0.175007	0.127630	0.162115
50	0.235151	-0.175515	0.220670	0.192230	0.520527	0.352693	0.411025

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	36	37	38	39	40	41	42
51	-0.121071	0.054095	0.067993	-0.245964	-0.014798	-0.029149	-0.060506
52	-0.194450	0.117799	0.048945	-0.188561	0.120209	0.096286	0.071680
53	-0.019631	0.073654	0.052739	0.054677	0.156225	0.047596	0.102923
54	-0.016836	0.152295	-0.029026	0.037815	0.105335	0.039513	0.060946
55	0.021631	-0.047651	0.049664	0.162256	0.169187	0.107426	0.129926
56	-0.163143	-0.035686	0.261152	0.036266	0.364719	0.212448	0.268029
57	-0.026709	-0.002372	0.057413	-0.075553	0.005917	-0.018703	0.030937
58	-0.052077	-0.066885	0.123690	0.093493	0.468460	0.487367	0.202929
59	-0.031436	-0.079929	-0.000015	0.061939	0.067277	0.006658	-0.010524
60	0.065121	-0.072621	0.063781	0.007885	0.113436	0.116811	0.108954
61	-0.017051	-0.020574	0.146866	0.096704	0.196149	0.160369	0.175937
62	0.014666	-0.112922	0.263029	0.031253	0.566616	0.374406	0.446902

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

1/30/68 PAGE 34.

CORRELATION MATRIX ALL VARIABLES

	43	44	45	46	47	48	49
1	-0.058235	-0.008990	-0.022813	0.090509	0.021308	0.045529	-0.105631
2	0.531455	0.399141	0.630579	0.477137	0.559544	0.281516	0.207140
3	-0.046925	-0.025573	0.038904	0.067820	-0.002464	-0.031934	0.000677
4	0.086568	0.027347	0.268053	0.194146	0.149354	0.091783	0.116851
5	0.313919	0.087223	0.197598	0.064414	0.256348	0.280728	0.224053
6	0.343415	0.380774	0.554925	0.445976	0.457949	0.254452	0.236300
7	0.301515	0.113366	0.337615	0.343783	0.313285	0.119447	0.151857
8	0.261225	0.227170	0.290713	0.234167	0.282121	0.189847	0.083240
9	0.054494	-0.001262	-0.025093	0.019620	0.020758	-0.029395	-0.002408
10	-0.005934	-0.060878	0.055566	0.012731	0.043349	-0.055514	-0.012917
11	0.096887	-0.019671	0.358760	0.290782	0.113608	0.020626	-0.048011
12	0.428792	0.251281	0.642939	0.563956	0.484259	0.220894	0.145050
13	0.381372	0.310563	0.432289	0.349518	0.326297	0.221049	0.167890
14	0.135071	0.088975	0.108150	0.089163	0.132040	0.021576	0.043246
15	0.028196	0.117952	0.040754	0.062542	-0.012741	0.048818	0.012964
16	0.212337	0.033356	0.205832	0.212205	0.193400	0.034291	0.060855
17	-0.017781	-0.111478	0.149735	0.181571	-0.017964	-0.055890	-0.137354
18	-0.133139	-0.171128	0.100712	0.137040	-0.101491	-0.070104	-0.207791
19	-0.041200	-0.153383	0.145877	0.169133	-0.028253	-0.032287	-0.155334
20	0.319719	0.184491	0.425792	0.363276	0.298919	0.126415	0.051382
21	0.130442	0.020124	0.257983	0.266021	0.103425	0.101001	-0.109163
22	0.094699	0.071927	0.042321	0.026561	0.094683	0.015204	0.001639
23	0.448075	0.298502	0.573193	0.490419	0.469140	0.193717	0.121676
24	0.200626	0.138482	0.240784	0.163916	0.172688	0.142010	0.074169
25	-0.099076	0.029999	-0.060246	-0.027850	-0.115912	-0.041052	-0.129964
26	-0.121218	-0.030516	-0.125438	-0.162158	-0.140601	-0.100810	-0.092071
27	-0.088738	-0.045922	-0.033231	0.084414	-0.128740	-0.054196	0.013993
28	-0.094330	-0.056289	-0.122943	-0.097859	-0.043442	-0.093678	-0.027255
29	-0.046848	-0.115771	-0.109809	-0.064247	-0.146176	-0.023550	-0.067465
30	0.161164	0.045798	0.114931	0.048047	0.156357	0.064638	0.101296
31	-0.089576	-0.004444	-0.007076	-0.002964	-0.006134	-0.058122	-0.000066
32	-0.078413	-0.157124	-0.223598	-0.196982	-0.131134	-0.096338	-0.082266
33	-0.182462	-0.061089	-0.263396	-0.201624	-0.138068	-0.139021	-0.045442
34	0.021214	-0.035218	0.011342	0.105397	0.002941	0.011505	-0.043129
35	0.270944	0.177159	0.403014	0.357937	0.298803	0.208890	0.110337
36	-0.130068	-0.009719	-0.032992	0.041728	-0.169512	0.059345	-0.007951
37	-0.099334	-0.090557	-0.140732	-0.098390	-0.134192	-0.124139	0.006019
38	0.353749	0.169036	0.262083	0.139092	0.301664	0.217320	0.211171
39	0.015085	0.100578	0.088949	0.175909	0.039329	0.115613	-0.076237
40	0.517398	0.236377	0.574071	0.452799	0.525556	0.228625	0.175007
41	0.310806	0.183101	0.373658	0.350005	0.275226	0.121897	0.127630
42	0.362728	0.276237	0.385728	0.290537	0.387240	0.154692	0.162115
43	1.000000	0.241324	0.467326	0.296987	0.489251	0.225598	0.137300
44	0.241324	1.000000	0.322380	0.258695	0.284150	0.114702	0.147412
45	0.467326	0.322380	1.000000	0.618275	0.601259	0.229156	0.178379
46	0.296987	0.258695	0.618275	1.000000	0.331438	0.232330	0.133757
47	0.489251	0.284150	0.601259	0.331438	1.000000	0.217724	0.129832
48	0.225598	0.114702	0.229156	0.232330	0.217724	1.000000	0.076693
49	0.137300	0.147412	0.178379	0.133757	0.129832	0.076693	1.000000
50	0.354963	0.374699	0.766823	0.683466	0.473287	0.303593	0.166083

CORRELATION MATRIX ALL VARIABLES

	43	44	45	46	47	48	49
51	0.052569	-0.122391	-0.068642	-0.067381	-0.007953	-0.084316	0.100916
52	0.157178	-0.078513	0.060078	0.041543	0.083834	-0.047755	0.155380
53	0.134770	0.170924	0.178386	0.100740	0.131305	0.054326	0.018587
54	0.020481	0.131123	0.079221	0.042463	0.064590	0.023575	0.020504
55	0.097367	0.147913	0.242880	0.140708	0.125565	0.056045	0.019534
56	0.344189	0.203937	0.383969	0.216125	0.383813	0.191423	0.098700
57	0.053239	0.003281	-0.132259	-0.112392	0.021189	-0.064513	0.021694
58	0.369687	0.142367	0.549718	0.548394	0.348600	0.194739	0.061027
59	0.051404	0.014687	0.105568	0.181444	0.058268	0.068393	-0.025111
60	0.092764	0.265213	0.155912	0.151806	0.109767	0.084777	0.024941
61	0.171401	0.453579	0.236360	0.210492	0.197252	0.129796	0.031964
62	0.505284	0.373547	0.539737	0.404977	0.489642	0.230149	0.286230

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	50	51	52	53	54	55	56
1	0.071687	-0.194161	-0.432396	-0.103760	0.011619	0.055956	-0.122654
2	0.561804	-0.051509	0.068207	0.228710	0.173921	0.170357	0.427616
3	0.023765	0.006523	0.056052	0.002798	-0.008481	0.062947	0.020177
4	0.216204	0.072944	0.163377	0.014133	0.080975	0.031671	0.200227
5	0.105642	0.277478	0.264587	0.005001	0.049074	-0.094916	0.220888
6	0.610970	-0.119326	-0.032772	0.207096	0.145719	0.192329	0.307790
7	0.337120	0.116636	0.316436	0.085872	0.052211	-0.076510	0.113054
8	0.288179	-0.013873	0.048511	0.043938	0.055965	0.110250	0.286179
9	-0.019275	0.125018	0.006395	-0.045288	-0.021417	-0.101547	-0.044058
10	-0.009690	0.106719	0.032246	-0.086395	-0.059247	-0.017283	-0.098213
11	0.255988	0.003037	0.131615	-0.001821	-0.078040	0.104393	0.174672
12	0.652520	0.018557	0.149216	0.094125	0.019467	0.163220	0.342844
13	0.403391	-0.039642	0.083120	0.072835	-0.017470	0.121114	0.229797
14	0.085892	-0.004908	0.018928	-0.029086	-0.063858	0.035710	0.126345
15	0.079837	-0.100783	-0.156543	-0.001601	0.009187	0.050528	0.005357
16	0.126784	0.050852	0.140929	-0.002655	-0.055049	0.083965	0.135206
17	0.102270	-0.031380	0.061605	-0.118990	-0.092281	0.050390	-0.027084
18	0.047842	-0.034186	0.033799	-0.149036	-0.125155	0.031643	-0.078239
19	0.084696	0.026778	0.139326	-0.102554	-0.087263	0.022576	-0.010898
20	0.364071	0.004464	0.056248	0.035466	0.040789	0.057177	0.168675
21	0.199127	-0.094835	0.073935	0.021435	-0.063963	0.134288	0.112961
22	0.056421	-0.058354	-0.021879	0.006111	-0.005452	-0.024361	0.075826
23	0.538853	0.037581	0.185852	0.209173	0.059984	0.122105	0.368938
24	0.216912	-0.035484	0.092075	0.108064	0.030386	0.056954	0.217564
25	-0.052797	-0.186283	-0.256583	0.133547	0.034649	0.062330	0.036931
26	-0.158016	-0.074882	-0.131501	0.090918	0.029023	0.031944	-0.034117
27	-0.003352	0.056149	0.083163	-0.021478	-0.059145	0.009725	-0.114627
28	-0.111868	0.012955	0.021521	-0.172807	-0.102389	-0.055452	-0.027390
29	-0.073953	-0.049171	-0.047262	0.058399	-0.007439	-0.010042	0.035019
30	0.016685	0.144744	0.184445	-0.028708	-0.049048	-0.057742	0.108342
31	-0.040054	0.031938	-0.066363	-0.049873	0.006150	0.048883	-0.077724
32	-0.194405	0.005177	-0.107482	0.026710	-0.035300	-0.071910	-0.184520
33	-0.194245	-0.032096	-0.159909	-0.092621	0.048032	-0.052983	-0.178089
34	0.015906	-0.026714	-0.044666	0.022312	-0.013417	-0.038518	-0.017218
35	0.363491	0.029878	0.092602	0.076183	0.023680	0.110586	0.236129
36	0.235151	-0.121073	-0.194450	-0.019631	-0.016837	0.021631	-0.163143
37	-0.175515	0.054095	0.117799	0.073654	0.152295	-0.047651	-0.035686
38	0.220670	0.067993	0.048945	0.052739	-0.029026	0.049664	0.261152
39	0.192230	-0.245964	-0.188561	0.054677	0.037815	0.162256	0.036266
40	0.520527	-0.014798	0.120209	0.156225	0.105335	0.169187	0.364719
41	0.352693	-0.029150	0.096286	0.047596	0.039513	0.107426	0.212448
42	0.411025	-0.060506	0.071680	0.102923	0.060946	0.129926	0.268029
43	0.354963	0.052569	0.157178	0.134770	0.020481	0.097367	0.344189
44	0.374699	-0.122391	-0.078513	0.170924	0.131123	0.147913	0.203937
45	0.766823	-0.068642	0.060078	0.178386	0.079221	0.242880	0.383969
46	0.683466	-0.067381	0.041543	0.100740	0.042463	0.140708	0.216125
47	0.473287	-0.007953	0.083834	0.131305	0.064590	0.125565	0.383813
48	0.303593	-0.084316	-0.047755	0.054326	0.023575	0.056045	0.191423
49	0.166083	0.100917	0.155380	0.018587	0.020504	0.019534	0.098700
50	1.000000	-0.148927	-0.007803	0.142491	0.084580	0.220499	0.329031

EHP-FACTOR ANALYSIS SECONDARY PRINCIPALS

1/30/68 PAGE 37.

CORRELATION MATRIX ALL VARIABLES

	50	51	52	53	54	55	56
51	-0.148927	1.000000	0.414228	-0.093503	-0.113037	-0.298694	-0.040619
52	-0.007803	0.414228	1.000000	0.046569	-0.100663	-0.217146	0.042719
53	0.142491	-0.093503	0.046569	1.000000	0.528201	0.141503	0.221703
54	0.084580	-0.113037	-0.100663	0.528201	1.000000	0.088735	0.135485
55	0.220499	-0.288694	-0.217146	0.141503	0.088735	1.000000	0.189033
56	0.329031	-0.040619	0.042719	0.221703	0.135485	0.189033	1.000000
57	-0.143612	0.161636	0.095697	0.056790	0.040632	-0.127693	0.021522
58	0.475512	-0.028773	0.079620	0.052517	-0.009755	0.146086	0.233742
59	0.125670	0.067281	-0.033558	-0.055720	-0.033984	-0.083632	-0.037857
60	0.123409	-0.050327	-0.057351	0.103210	0.052015	0.096524	0.097890
61	0.227615	-0.111966	-0.111704	0.186158	0.128356	0.188002	0.183642
62	0.496470	-0.007477	0.102219	0.186645	0.087332	0.167013	0.292636

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	57	58	59	60	61	62
1	-0.083117	0.091220	0.105893	0.030426	-0.005516	-0.0044524
2	0.006793	0.452416	0.038176	0.180103	0.331059	0.546600
3	-0.141754	0.101944	0.003635	-0.107105	-0.009244	-0.107840
4	-0.159352	0.252402	0.064353	0.059588	0.107734	0.101165
5	0.105837	0.071335	0.034270	0.046052	0.066443	0.290484
6	0.000862	0.306055	0.036145	0.143957	0.252897	0.440037
7	-0.006254	0.334066	0.141281	0.042686	0.069060	0.308440
8	0.016555	0.229205	0.058714	0.084169	0.186251	0.301630
9	0.121715	0.044085	0.043853	0.005926	-0.060263	0.010217
10	-0.051072	0.055158	0.016310	0.051492	-0.042199	0.014632
11	-0.203389	0.391808	0.140377	0.093768	0.051715	0.114971
12	-0.079177	0.526702	0.101856	0.166992	0.236275	0.446071
13	-0.012165	0.323299	0.021179	0.261908	0.320050	0.441838
14	-0.065452	0.129044	0.074952	0.162576	0.165758	0.153502
15	-0.034754	0.023675	0.057309	0.142113	0.170007	0.090384
16	-0.052367	0.413430	0.034678	0.083413	0.083655	0.171321
17	-0.173435	0.336716	0.135890	0.079306	-0.062408	-0.020905
18	-0.257940	0.310484	0.196110	0.007922	-0.084480	-0.175824
19	-0.183460	0.360999	0.194330	0.013772	-0.062983	-0.108111
20	-0.008022	0.422081	0.136441	0.139725	0.127964	0.328393
21	-0.178797	0.381802	0.069600	0.035259	0.069744	0.070052
22	-0.009992	0.048923	0.050326	0.165721	0.144023	0.103580
23	0.035076	0.462651	0.052391	0.149096	0.258853	0.483939
24	-0.013620	0.203458	0.065636	0.141811	0.176866	0.271195
25	0.015369	-0.102201	0.046558	0.111283	0.110150	-0.086035
26	0.007204	-0.166634	-0.084605	0.040847	0.015302	-0.135010
27	-0.018363	0.055805	0.007017	0.000430	0.027894	-0.0031371
28	0.012093	-0.130826	0.013207	0.024260	-0.069737	-0.086968
29	0.000793	-0.097187	-0.006436	-0.008266	-0.024215	-0.082409
30	0.077405	0.086413	0.036734	-0.011748	-0.011552	0.090828
31	0.064127	0.001253	0.043246	0.089285	0.018241	-0.079892
32	0.041249	-0.118923	-0.027056	-0.069500	-0.132544	-0.103229
33	-0.004446	-0.189949	-0.009602	0.006573	-0.082175	-0.192110
34	-0.089999	0.190098	0.021708	0.064470	0.039111	0.044285
35	0.013734	0.350153	0.106677	0.254166	0.200445	0.414222
36	-0.026709	-0.052077	-0.031436	0.065121	-0.017051	0.014666
37	-0.002372	-0.066885	-0.079929	-0.072621	-0.020374	-0.112922
38	0.057413	0.123691	-0.000015	0.063781	0.146866	0.263029
39	-0.075553	0.093493	0.061939	0.007885	0.096704	0.031253
40	0.005917	0.468460	0.067277	0.113436	0.196149	0.566616
41	-0.018703	0.487367	0.006658	0.116811	0.160369	0.374406
42	0.030937	0.202929	-0.010524	0.108954	0.175937	0.446902
43	0.053239	0.369687	0.051404	0.092764	0.171401	0.505284
44	0.003281	0.142367	0.014687	0.265213	0.453579	0.373547
45	-0.132259	0.549718	0.105568	0.155912	0.236360	0.539737
46	-0.112392	0.548394	0.181444	0.151806	0.210492	0.404977
47	0.021189	0.348601	0.058268	0.109767	0.197252	0.489642
48	-0.064513	0.194739	0.068393	0.084777	0.129796	0.230149
49	0.021694	0.061027	-0.025111	0.024941	0.031964	0.286230
50	-0.143612	0.475512	0.125670	0.123409	0.227615	0.496470

EMP-FACTOR ANALYSIS SECONDARY PRINCIPALS

CORRELATION MATRIX ALL VARIABLES

	57	58	59	60	61	62
51	0.161636	-0.028772	0.067281	-0.050327	-0.111966	-0.007477
52	0.095697	0.079620	-0.033558	-0.057351	-0.111704	0.102219
53	0.056790	0.052517	-0.055720	0.103210	0.186158	0.186645
54	0.040632	-0.009755	-0.033984	0.052015	0.128356	0.087332
55	-0.127693	0.146086	-0.083632	0.096524	0.188002	0.167013
56	0.021522	0.233742	-0.037857	0.097890	0.183642	0.292636
57	1.000000	-0.123146	-0.145616	0.023675	-0.050690	0.055810
58	-0.123146	1.000000	0.228935	0.175117	0.191290	0.419112
59	-0.145616	0.228935	1.000000	0.023266	0.005920	0.011094
60	0.023675	0.175117	0.023266	1.000000	0.636662	0.264452
61	-0.050690	-0.191290	0.005920	0.636662	1.000000	0.316828
62	0.055810	0.419112	0.011094	0.264452	0.316828	1.000000